

PHOTOGRAPHIC INTERPRETATION REPORT



KH-7 MISSION 4037
23-30 MAY 1967

PART I

Declass Review by NIMA / DoD

JUNE 1967

COPY 202

60 PAGES

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

X1



TARGET CATEGORIES

1. GUIDED MISSILES *
 - A. ICBM Deployment
 - B. IRBM and MRBM (including search areas)
 - C. Research and Development (including space)
 - D. Production Facilities (including test)
 - E. Suspect Missile (Search area or undetermined activity)
 - F.
 - G. Naval Launched Missiles
 - H. Anti-Missile Missile
 - I. SAM Sites
 - J. Short Range Surface-to-surface Missiles
 - K. Missile support/storage areas
 - L. SAM Training Complexes
 2. AIRCRAFT
 - A. Long Range Bases
 - B. Production Facilities (including R and D)
 - C. Airfields
 3. NUCLEAR ENERGY
 - A. Test Area
 - B. Production
 - C. Stockpiles
 - D. Research Institutes
 - E. Suspect Activity
 4. NAVAL ACTIVITY
 - A. Operating Bases
 - B. Production Yards
 - C. Commercial Ports
 - D. Locks and Canals
 5. BIOLOGICAL/CHEMICAL WARFARE
 - A. BW/CW Test Areas (including test)
 - B. Production
 - C. Storage
 - D. Research Institutes
 - E. Suspect Activity
 6. ELECTRONICS
 - A. Missile Tracking Facilities
 - B. Electronics (general)
 7. MILITARY
 - A. Military Installations
 - B. Special Areas
 - C.
 - D. Landing Beaches
 - E.
 - F.
 - G. Tactical SSM Support Facilities
 8. URBAN/INDUSTRIAL
 - A. Complexes
 - B. Industrial Plants
 - C. Geodetic Control Points
 9. OTHER
 - A. Unidentified Installations
- * Digits in these numbers indicate specific target complexes. A suffix identifies individual components within the complex.

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

TABLE OF CONTENTS

PREFACE	2
TRACK OF MISSION	3
HIGHLIGHTS	9
MISSILES	10
AIR FACILITIES	29
NUCLEAR ENERGY	31
ELECTRONICS/COMMUNICATIONS	37
MILITARY ACTIVITY	39
COMPLEXES	40
ATTACHMENTS	APPENDIX

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967 []

PREFACE

THIS IS THE FIRST OF TWO OAK REPORTS ON MISSION 4037 COVERING THE HIGHEST PRIORITY COMOR TARGETS NOT REPORTED IN THE MIDDLE OR FAR EAST EDITIONS. SEE [] FOR THE MIDDLE EAST TARGETS. THE HIGHEST PRIORITY FAR EAST COMOR TARGETS WILL BE REPORTED IN [] A LISTING OF COMOR TARGET CATEGORIES APPEARS ON THE INSIDE OF THE FRONT COVER. 25X 25X

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES. COUNTRY CODE ABBREVIATIONS ARE PRINTED ON THE INSIDE OF THE BACK COVER PAGE.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS, SUFFIXED WITH A FOR ASCENDING AND D FOR DESCENDING, ARE LISTED FIRST, FOLLOWED BY FRAMES WHICH ARE INDICATED BY THE FRAME NUMBER WITH AN INDEX NUMBER RUNNING CONSECUTIVELY FROM THE BEGINNING OF EACH PASS -- 4/8 FOR EXAMPLE, MEANS FRAME 4, INDEX 8. UNIVERSAL REFERENCE GRID COORDINATES FOR NEW TARGETS ARE GIVEN IN PARENTHESIS AFTER THE INDEX NUMBER TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE -- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), S (SNOW), O (OBLIQUITY), SD (SEMI DARKNESS), D (DARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF PHOTOGRAPHIC COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS INDICATED BY ST (STEREO), PS (PARTIAL STEREO), OR NS (NON-STEREO).

THE INITIAL SCAN OF THE PHOTOGRAPHY IS ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERIS DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS. MOREOVER, RECIPIENTS ARE CAUTIONED THAT THE IDENTIFICATION OF TARGETS IS BASED PRIMARILY ON PHOTOGRAPHY AND DOES NOT CONSTITUTE A FINISHED INTELLIGENCE JUDGMENT.

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Approved For Release 2003/05/15 : CIA-RDP99T01396R000300380001-9

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Highlights

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KH-7 MISSION 4037, 23-30 MAY 1967

HIGHLIGHTS

1. AT LAUNCH SITES M1 AND M2 AT THE TYURATAM MISSILE TEST CENTER, THE WALLS OF THE SILO HEADWORKS ARE APPROACHING GROUND LEVEL. THE HEADWORKS AT M3 IS STILL WELL BELOW GROUND LEVEL.

2. THE FENCE AT UZHUR ICBM SITE 21 HAS BEEN ALTERED SO THAT IT NO LONGER ENCLOSES THE TERMINAL POINTS OF THE L ELECTRONIC FACILITY.

3. AT ZAGORSK, THE RECENTLY COMPLETED SUSPECT LIQUID HYDROGEN TEST AREA APPEARS OPERATIONAL. FOR THE FIRST TIME AT VORONEZH, A DARK BLAST MARK IS VISIBLE AT TEST STAND 2. SEVERAL TEST POSITIONS AND BUILDINGS ARE NEWLY IDENTIFIED THROUGHOUT THE KRASNOARMEYSK SOLID MOTOR DEVELOPMENT FACILITY, AT BIYSK, A LARGE SOLID ROCKET MOTOR IS MOUNTED IN A FIRING POSITION IN THE ISOLATED TEST POSITION.

4. NUMEROUS VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED IN THE TAMBOV REGIONAL MILITARY STORAGE INSTALLATION, USSR, INCLUDING APPROXIMATELY 200 POSSIBLE MISSILE TRANSPORTERS, 60 POSSIBLE FUEL TRAILERS, AND 200 CARGO/FUEL TRUCKS.

STATUS OF TARGET READOUT

THIS OAK REPORTS ON 61 COMOR TARGETS AND 1 NON-COMOR TARGET.

TOP SECRET

Missiles

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TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

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25X1A

MISSILES

TYURATAM MISSILE TEST CENTER

UR 4538N 06317E

25X1D

THE TEST CENTER IS COVERED ON 3 PASSES OF PHOTOGRAPHY.

[] COVERS COMPLEXES F AND G AND LAUNCH GROUPS K, L, M, AND N. INTERPRETATION IS HINDERED BY SCATTERED CLOUDS AND HAZE. [] COVERS THE COMPLEX G PORTION

25X1D

OF THE CENTER, BUT ALL LAUNCH AND SUPPORT FACILITIES ARE OBSCURED BY HEAVY CLOUDS. [] COVERS THE VICINITY OF COMPLEX B, BUT MOST OF THE AREA IS OBSCURED BY HEAVY CLOUDS.

25X1D



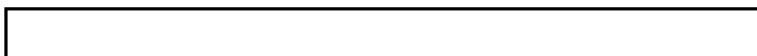
TYURATAM LAUNCH COMPLEX B

UR 4559N 06333E

LAUNCH PAD B1 IS CLOUD COVERED. HOWEVER, SEVERAL SMALL BUILDINGS IN THE LAUNCH AREA ARE VISIBLE THROUGH THE CLOUDS.

AT SITE B2, 2 LONG VEHICLES/PIECES OF EQUIPMENT ARE ON THE PAD AND AT LEAST 20 SMALLER VEHICLES/PIECES OF EQUIPMENT ARE WITHIN THE SITE.

25X1D



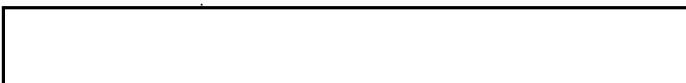
TYURATAM LAUNCH COMPLEX F

UR 4601N 06305E

THE RIGHT SILO DOOR IS OPEN AND A LONG VEHICLE/PIECE OF EQUIPMENT IS ON THE LOOP ROAD JUST EAST OF THE RIGHT SILO. ANOTHER LONG VEHICLE/PIECE OF EQUIPMENT IS OFF THE LOOP ROAD EAST OF THE RIGHT SILO AND ONE IS ON THE LOOP ROAD FORWARD OF THE LEFT SILO.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D



TYURATAM LAUNCH COMPLEX G

UR 4604N 06255E

G1-G2 -- CONSTRUCTION CONTINUES IN THE VICINITY OF BOTH G1-A AND G2-A. THE STRUCTURE BUILT NORTH OF G1-A HAS A

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TOP SECRET

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25X

KH-7 MISSION 4037, 23-30 MAY 1967

WIDE SLOPING RAMP [REDACTED] ON ITS NORTH SIDE. THE STRUCTURE HAS BEEN EARTH MOUNDED. RAIL SERVICE TO BOTH G1-A AND G2-A ON THE NORTH SIDE HAS BEEN INTERRUPTED BY DITCHING. STACKS OF WHAT APPEAR TO BE STRUCTURAL STEEL MEMBERS ARE ON AND ABOUT OLD PAD G2. AN EXCAVATION HAS BEEN DUG NE OF G2-A. THE EXCAVATION CONTAINS 3 SMALL STRUCTURES, 2 OF WHICH ARE CYLINDRICAL AND THE THIRD COMPRISED OF 2 CONTIGUOUS CYLINDERS. A SMALL GABLE-ROOFED BUILDING HAS BEEN CONSTRUCTED BETWEEN THE FENCES ON THE EAST SIDE OF THE SITE.

25X

G3-G4 -- THE BUILDING CONSTRUCTED AT THE FORWARD CENTER OF THE LAUNCH AREA HAS 3 CYLINDRICAL STRUCTURES ON ITS ROOF. A NEW DITCH HAS BEEN OPENED FROM THE WESTERN EARTH-MOUNDED BUILDING WEST OF G4, THROUGH AN EARTH-MOUNDED BUILDING NEAR THE CENTER OF THE LAUNCH AREA, TO A POINT JUST WEST OF THE SUMP. THE WESTERN SIDE OF THE SUMP HAS BEEN EXCAVATED. SEVERAL HUNDRED FEET TO THE REAR OF THE SUMP, THIS NEW DITCH FORKS WITH A BRANCH EXTENDED TO THE NW A SHORT DISTANCE. THE BUILDING UNDER CONSTRUCTION NEAR THE SITE ENTRANCE HAS A STACK ON ITS EAST SIDE. THE BUILT-IN ERECTORS ON BOTH PADS ARE PARTIALLY ERECTED. A MISSILE TRANSPORTING RAIL CAR IS AT THE SOUTH EDGE OF PAD G3. THE NEW RECTANGULAR BUILDING EAST OF G4 IS NOW RAIL SERVED. BOTH GANTRYs ARE LOCATED TO THE REAR OF THE PADS.

G5-G6 -- THE 4-LEGGED APPARATUS IS POSITIONED ON PAD G5 AND A PROBABLE TRANSPORTER AND A LONG VEHICLE/PIECE OF EQUIPMENT ARE NEARBY. AT LEAST 8 VEHICLES ARE PARKED BETWEEN THE PADS AND ONE LONG VEHICLE/PIECE OF EQUIPMENT IS ON PAD G6. APPROXIMATELY 45 CYLINDERS ARE POSITIONED ALONG THE EAST FENCE LINE AND THE PREVIOUSLY REPORTED LIGHT-TONED POSSIBLE MISSILE COMPONENTS ARE IN THE SAME POSITION ALONG THE SOUTH FENCE LINE. THE GANTRY IS BACK NEAR THE END OF ITS TRACK.

COMPLEX SUPPORT FACILITY -- CONSTRUCTION CONTINUES ON THE 7 LARGE BUILDINGS UNDER CONSTRUCTION WEST OF THE ADMINISTRATION/HOUSING AND TECHNICAL SUPPORT AREA.

REVETTED STORAGE AREA -- NO SIGNIFICANT CHANGE IS OBSERVED IN CLOUD-FREE AREAS.

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TOP SECRET

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KH-7 MISSION 4037, 23-30 MAY 1967

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(SEE ATTACHMENT)

25X1A

TYURATAM LAUNCH GROUP K (SITE K1-K2)

UR 4601N 06303E

A VEHICLE/PIECE OF EQUIPMENT IS PARKED AT SILO K2.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D

TYURATAM LAUNCH GROUP K (SITE K3)

UR 4604N 06256E

THE APRON NORTH OF THE SILO IS CLUTTERED WITH EQUIPMENT
AND STACKS OF MATERIALS. A CRANE AND AT LEAST 5
VEHICLES ARE AROUND THE SILO. TWO SMALL
VEHICLES/PIECES OF EQUIPMENT ARE ON THE HARDSTAND ON
THE WEST SIDE OF THE LOOP ROAD AND APPROXIMATELY 15
VEHICLES/PIECES OF EQUIPMENT ARE PARKED ALONG THE SOUTH
FENCE LINE.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D

TYURATAM LAUNCH GROUP L

UR 4603N 06259E

THE SILO DOOR AT SITE 1 IS OPEN. THE LAUNCH POINT HAS
BEEN SEPARATELY SECURED FROM THE REST OF THE SITE BY
NEW FENCING. AT LEAST 10 SMALL VEHICLES/PIECES OF
EQUIPMENT ARE AT VARIOUS POINTS WITHIN THE SITE. THE
SILO DOOR IS ALSO OPEN AT LAUNCH SITE L2 AND A
VEHICLE/PIECE OF EQUIPMENT IS ON THE GRADED ACCESS NW
OF THE SILO. AT SITE L3, TWO SMALL POSSIBLE
VEHICLES/PIECES OF EQUIPMENT ARE PARKED ON THE APRON
NEAR THE SILO. A VEHICLE IS SEEN APPROACHING THE GATE
AT SITE L5 AND SEVERAL VEHICLES/PIECES OF EQUIPMENT AND
A RING ARE OBSERVED ON THE APRON AT SITE L7. NO
SIGNIFICANT CHANGE OBSERVED IN ANY OF THE FACILITIES.

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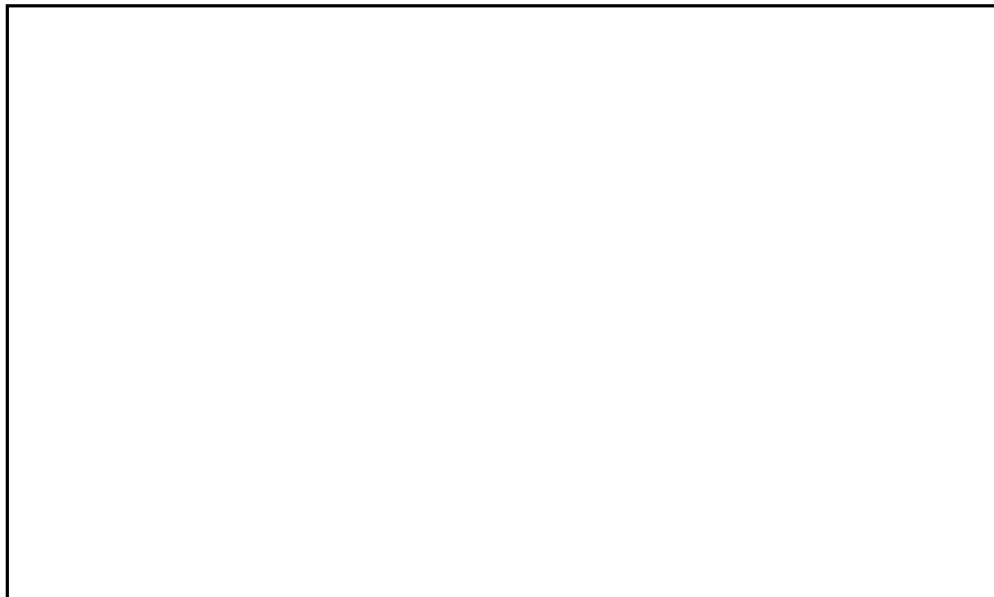
K1

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~~TOP SECRET~~25X
25X

25X1D

KH-7 MISSION 4037, 23-30 MAY 1967



25X1A

TYURATAM LAUNCH GROUP M (SITE M1)

UR 4603N 06302E

EXCAVATION IS STILL IN PROGRESS AT THE LARGE CIRCULAR HOLE LOCATED NORTH OF THE SILO. THE WALLS OF THE RECTANGULAR TRI-COMPARTMENTED SILO HEADWORKS ARE APPROACHING GROUND LEVEL. THE OVERALL DIMENSIONS OF THE HEADWORKS ARE APPROXIMATELY [REDACTED] FT.

NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1D

(SEE ATTACHMENT)



TYURATAM LAUNCH GROUP M (SITE M2)

UR 4600N 06301E

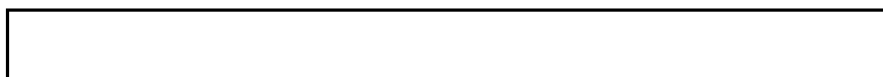
THE WALLS OF THE SILO HEADWORKS, WITH MEASUREMENTS WHICH APPEAR TO BE IDENTICAL TO THOSE AT SITE M1, ARE APPROACHING GROUND LEVEL. A DITCH HAS BEEN OPENED FROM A POINT JUST EAST OF THE SILO EASTWARD TO THE NEW ROAD WHICH BY-PASSES THE LAUNCH SITE. A SHALLOW, NEARLY SQUARE EXCAVATION HAS BEEN DUG ON THE NORTH SIDE OF THIS NEW ROAD NEAR ITS PRESENT TERMINUS.

25X1D

NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1D

(SEE ATTACHMENT)

~~TOP SECRET~~25X
25X

~~TOP SECRET~~25X
25X

KH-7 MISSION 4037, 23-30 MAY 1967

25X1A

TYURATAM LAUNCH GROUP M (SITE M3)

UR 4602N 06306E

SILO HEADWORKS ARE AT AN EARLIER STAGE OF CONSTRUCTION THAN AT SITES M1 AND M2. ONLY 2 SIDES ARE DISCERNIBLE, AND THEY ARE WELL BELOW GROUND LEVEL. NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

(SEE ATTACHMENT)

25X1D

TYURATAM LAUNCH GROUP N (SITE N1)

UR 4602N 06303E

THE SILO DOOR IS OPEN. A VEHICLE/PIECE OF EQUIPMENT AND A RING ARE ON THE APRON NEAR THE SILO. TWO VEHICLES/PIECES OF EQUIPMENT ARE IN THE SW CORNER OF THE SITE.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D

TYURATAM LAUNCH GROUP N (SITE N2-N3)

UR 4604N 06257E

BOTH SILO DOORS ARE OPEN, AND A RING AND A SMALL VEHICLE ARE NEAR EACH SILO.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D

SVOBODNYI ICBM COMPLEX

UR 5146N 12806E

THREE TYPE IIID LAUNCH SITES AND ONE TYPE IIB LAUNCH SITE ARE INTERPRETABLE. POSSIBLE LAUNCH SITE 60 CAN BE IDENTIFIED ONLY. AT LAUNCH SITE 2, A MISSILE IS POSITIONED IN FRONT OF THE LEFT READY BUILDING. NO OTHER SIGNIFICANT ACTIVITY IS OBSERVED. NO NEW MISSILE ACTIVITY OBSERVED IN THE INTERPRETABLE PORTIONS OF THE 50-NM SEARCH AREA.

CONSTRUCTION STATUS AND DETAILED DATA FOR TYPE IIID LAUNCH SITES ARE AS FOLLOWS --

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K1

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TOP SECRET

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KH-7 MISSION 4037, 23-30 MAY 1967

LAUNCH GROUP M -- SITES 59, 63, AND 66 ARE IN THE
MID-STAGE OF CONSTRUCTION.

25X1D



25X1A

TYUMEN ICBM COMPLEX

UR 5652N 06551E

ONLY THE COMPLEX SUPPORT FACILITY AND RAIL-TO-ROAD
TRANSFER POINT ARE COVERED ON PHOTOGRAPHY. THREE FUEL
TRAILERS AND 3 OXIDIZER TRAILERS ARE IN THE
VEHICLE/EQUIPMENT PARKING AREA OF THE TRANSFER POINT.
TWO LONG RAIL CARS ARE ALSO PARKED AT THE TRANSFER
POINT. NO NEW MISSILE FACILITIES ARE OBSERVED IN THE
PORTION OF THE SEARCH AREA COVERED ON PHOTOGRAPHY.

25X1D



UZHUR ICBM COMPLEX

UR 5517N 08949E

NINE OF THE 42 CONFIRMED LAUNCH SITES ARE COVERED ON
PHOTOGRAPHY. THE FENCE LINE AT SITE 21, THE CONTROL
SITE OF THE D GROUP, HAS BEEN ALTERED SO THAT IT DOES
NOT ENCLOSE THE ENDS OF THE LEGS OF THE L-SHAPED
ELECTRONIC FACILITY. NO NEW MISSILE FACILITIES
OBSERVED.

CONSTRUCTION STATUS AND DETAILED DATA FOR LAUNCH SITES
ARE AS FOLLOWS --

LAUNCH GROUP A -- SITES 3 AND 5 ARE INTERPRETABLE. NO
SIGNIFICANT ACTIVITY OBSERVED. LAUNCH SITE 4 CAN BE
IDENTIFIED ONLY.

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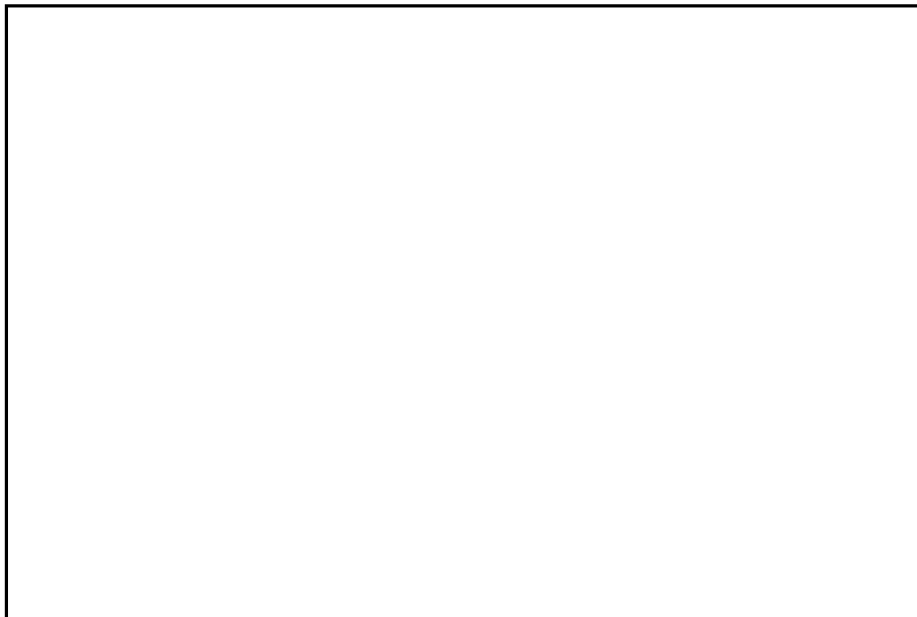
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KH-7 MISSION 4037, 23-30 MAY 1967

LAUNCH GROUP B -- SITE 9 IS INTERPRETABLE. NO SIGNIFICANT ACTIVITY OBSERVED.

LAUNCH GROUP D -- SITES 20-23 AND 25 ARE INTERPRETABLE. SITES 20, 21 AND 25 ARE IN A LATE STAGE OF CONSTRUCTION. SITES 22 AND 23 ARE IN AN UNDETERMINED STAGE OF CONSTRUCTION.

25X1D



25X1A

OLOVYANNAYA ICBM COMPLEX

UR 5049N 11550E

25X1D

EIGHTEEN OF THE KNOWN 81 TYPE IIID LAUNCH SITES ARE INTERPRETABLE. A MISSILE-TRANSPORTING DOLLY (APPROXIMATELY [REDACTED] FT), A MISSILE ERECTOR/LOADER [REDACTED]

25X1D

[REDACTED], A TRUCK-MOUNTED CRANE, AND 2 VANS ARE ON THE GRADED ACCESS AT LAUNCH SITE 55I. THIS EQUIPMENT IS

25X1D

25X1D

SIMILAR TO THAT OBSERVED AT PERM LAUNCH SITE 29 ON MISSION [REDACTED] IT IS ALSO SIMILAR TO EQUIPMENT OBSERVED AT TYPE IIIC COMPLEXES. NO OTHER SIGNIFICANT ACTIVITY IS OBSERVED. NO NEW MISSILE-RELATED FACILITIES ARE OBSERVED IN PORTIONS OF THE SEARCH AREA COVERED ON PHOTOGRAPHY.

CONSTRUCTION STATUS AND DETAILED DATA FOR INTERPRETABLE LAUNCH SITES ARE AS FOLLOWS --

LAUNCH GROUP D -- ALL 10 SITES ARE COMPLETE. SEVEN SITES (4-7 AND 11-13) ARE OBSERVED. TWO PIECES OF EQUIPMENT ARE ON THE GRADED ACCESS AT SITE 7 AND 10 PIECES OF EQUIPMENT ARE RANDOMLY DISPERSED AROUND THE

TOP SECRET

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KH-7 MISSION 4037, 23-30 MAY 1967

GRADED ACCESS AT SITE 12. NO OTHER SIGNIFICANT ACTIVITY OBSERVED.

LAUNCH GROUP E -- ALL 10 SITES ARE COMPLETE. TWO SITES (15 AND 16) ARE COVERED. NO SIGNIFICANT ACTIVITY OBSERVED.

LAUNCH GROUP F -- ONE SITE (41) IS COVERED. IT IS NOW COMPLETE. NO SIGNIFICANT ACTIVITY OBSERVED.

LAUNCH GROUP I -- 6 OF THE 10 SITES (55, 56, 59, 78, 82, AND 84) ARE COVERED. LAUNCH SITE 55 IS NOW COMPLETE. THE OTHER 5 SITES ARE IN A LATE STAGE OF CONSTRUCTION. CONSTRUCTION CONTINUES ON THE CONTROL FACILITY AT SITE 55. NO OTHER SIGNIFICANT ACTIVITY OBSERVED.

LAUNCH GROUP K -- 2 OF THE 10 SITES (71 AND 80) ARE COVERED. SITE 71 IS IN A LATE STAGE OF CONSTRUCTION AND SITE 80 IS IN THE MID-STAGE OF CONSTRUCTION. NO SIGNIFICANT ACTIVITY OBSERVED.

25X1D

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TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

25X1D

25X1A

DOMBAROVSKIY ICBM COMPLEX

UR 5101N 05950E

SEVEN OF THE KNOWN 37 TYPE IIIC LAUNCH SITES ARE INTERPRETABLE. NO SIGNIFICANT ACTIVITY IS OBSERVED. NO NEW MISSILE-RELATED FACILITIES ARE OBSERVED IN PORTIONS OF THE SEARCH AREA COVERED ON PHOTOGRAPHY.

CONSTRUCTION STATUS AND DETAILED DATA FOR INTERPRETABLE LAUNCH SITES ARE AS FOLLOWS --

LAUNCH GROUP D -- SITE 26 IS IN THE MID-STAGE OF CONSTRUCTION.

LAUNCH GROUP E -- ALL 6 SITES (28-32 AND 34) ARE IN THE MID-STAGE OF CONSTRUCTION.

25X1D

TOP SECRET

K1

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KH-7 MISSION 4037, 23-30 MAY 1967

KARTALY ICBM COMPLEX

UR 5302N 06034E

NINE OF THE 29 KNOWN LAUNCH SITES OF THE COMPLEX ARE COVERED ON PHOTOGRAPHY. NO SIGNIFICANT ACTIVITY OBSERVED. NO NEW MISSILE FACILITIES ARE OBSERVED IN THE PORTIONS OF THE SEARCH AREA COVERED ON PHOTOGRAPHY.

25X1A

CONSTRUCTION STATUS AND DETAILED DATA FOR LAUNCH SITES ARE AS FOLLOWS --

LAUNCH GROUP A -- LAUNCH SITES 3, 5, AND 6 ARE COVERED. NO SIGNIFICANT ACTIVITY OBSERVED. LAUNCH SITE 1 CAN BE IDENTIFIED ONLY.

LAUNCH GROUP B -- LAUNCH SITES 10 AND 13 ARE COVERED. NO SIGNIFICANT ACTIVITY OBSERVED.

LAUNCH GROUP E -- LAUNCH SITES 31, 34, AND 36 REMAIN IN AN EARLY STAGE OF CONSTRUCTION.

25X1D



25X1A

MAKAT FIELD LAUNCH POINT MRBM

UR 4758N 05342E

THE LAUNCH AREA, LANDING STRIPS, ELECTRONIC AREA, AND A PORTION OF THE SUPPORT AREA MOTOR POOL ARE COVERED ON CLEAR PHOTOGRAPHY. THE ELECTRONICS AREA CONTAINS 1 RANGE/AZIMUTH RADAR (POSSIBLY BIG MESH) ON A RADAR MOUND, 2 RADAR C, AND 35 ASSOCIATED VEHICLES/VANS. APPROXIMATELY 15 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED IN THE SUPPORT AREA MOTOR POOL.

K1

25X
25X

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KH-7 MISSION 4037, 23-30 MAY 1967

AIRCRAFT LANDING TEES ARE POSITIONED ON THE 2 E/W RUNWAYS. NO CHANGE IS OBSERVED IN THE LAUNCH AREA. NO MISSILES OBSERVED.

25X1D

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1A

AYBATKAZGAN SSM AREA TUMA TAU

UR 4645N 06825E

A GENERALLY NORTH-SOUTH STRIP APPROXIMATELY [REDACTED] NM, CENTERED OVER 46-44N 068-25E, IS COVERED ON STEREO PHOTOGRAPHY. APPROXIMATELY 90 SMALL/MEDIUM BUILDINGS ARE OBSERVED WITHIN THIS AREA. OF THESE, APPROXIMATELY 50 BUILDINGS AND 8 VEHICLES/PIECES OF EQUIPMENT ARE LOCATED AT 46-46N 068-20E. THE REMAINDER ARE SCATTERED THROUGHOUT THE AREA. NO SIGNIFICANT CHANGES ARE OBSERVED AT THE DOMED BUILDING LOCATED AT 46-53N 068-27E.

25X1D

SEVERAL HUNDRED DEPRESSIONS/CRATERS ARE OBSERVED SCATTERED THROUGHOUT THE AREA. FIFTEEN CRATERS LOCATED AT 46-58N 068-30E AND 46-36N 068-31E PRESENT MULTI-DIRECTIONAL SPLAY CHARACTERISTICS. HOWEVER, DUE TO THEIR LINEAR ALIGNMENT, CLOSE SPACING, AND THE PRESENCE OF SHOT HOLES DIRECTLY IN LINE WITH THEM, THESE CRATERS ARE PROBABLY THE RESULT OF SEISMOLOGICAL EXPLORATION. ONE PROBABLE AND 3 SUSPECT MISSILE IMPACT CRATERS ARE LOCATED AT 46-39-30N 068-27-10E.

25X1D

REANALYSIS OF PREVIOUSLY REPORTED CRATERS IN THIS GENERAL AREA RESULTS IN THE CONCLUSION THAT THE MAJORITY OF THESE DEPRESSIONS/CRATERS ARE PROBABLY NOT CAUSED BY IMPACTING MISSILES.

25X6

20

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25X
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X1

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25X

TOP SECRET

25X6

KH-7 MISSION 4037, 23-30 MAY 1967



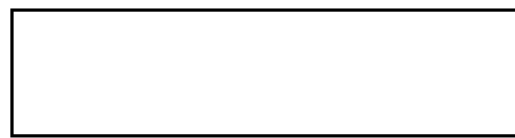
25X1A

KAPUSTIN YAR 650 NM IMPACT AREA

UR 4740N 06200E

25X1D

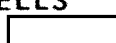

NO EVIDENCE OF CRATERS OBSERVED IN PORTIONS OF THE
10-NM SEARCH AREA COVERED ON PHOTOGRAPHY.



ZAGORSK ROCKET ENG TEST FAC KRASNOZAVODSK UR 5625N 03810E

IN THE OLDER PART OF THE FACILITY, SOME SCARRING FROM
TEST ACTIVITY IS APPARENT AT VERTICAL TEST STANDS 1-4
AND AT THE HORIZONTAL TEST BUILDING. TEST STAND 2 IS
VERY SIMILAR TO TEST STAND 3 AT THE PEI-CHING MISSILE
DEVELOPMENT AND PRODUCTION CENTER CHANG-HSIN-TIEN,
CHINA. NUMEROUS ROOF VENTS ARE VISIBLE ON THE SUSPECT
LIQUID HYDROGEN PRODUCTION BUILDING. THE NEARBY
SUBSTATION IS COMPLETE.

25X1D

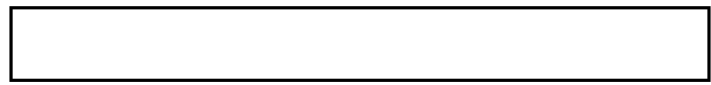
THE RECENTLY CONSTRUCTED SUSPECT LIQUID HYDROGEN TEST
AREA APPEARS OPERATIONAL, ALTHOUGH SOME SCATTERED
CONSTRUCTION CONTINUES. THIS AREA CONTAINS 2 TEST
BUILDINGS. THE EASTERNMOST IS A MULTIPLE POSITION TEST
BUILDING CONTAINING AT LEAST 2 HORIZONTAL TEST CELLS
WHICH FRONT ON A WIDE PAD. A CYLINDRICAL OBJECT 
LONG OVERALL AND  IN DIAMETER RESEMBLING A DIFFUSER
IS POSITIONED IN FRONT OF ONE OF THE TEST CELLS AND AN
OBJECT APPROXIMATELY 25 X 5 FT IS IN FRONT OF ANOTHER
CELL. THE SECOND TEST BUILDING CONTAINS A SINGLE TEST
POSITION THAT HAS A TROUGH-SHAPED DEFLECTOR SITUATED AT
THE END OF THE BUILDING. NO EVIDENCE OF TEST ACTIVITY
IS APPARENT AT THESE TEST BUILDINGS.

25X1D

CONSTRUCTION CONTINUES IN THE LARGE ASSOCIATED HOUSING
AREA. NUMEROUS VEHICLES AND RAIL CARS ARE VISIBLE
THROUGHOUT THE FACILITY.

25X1D

(SEE ATTACHMENT)



TOP SECRET

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25X

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KH-7 MISSION 4037, 23-30 MAY 1967

25X1A

PERM ARMAMENT PLANT 172

UR 5802N 05618E

NO LARGE RAIL CARS OBSERVED.

25X1D

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW
CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY
UNREPORTED FEATURES OBSERVED.

VORONEZH ROCKET ENGINE TEST FACILITY

UR 5134N 03909E

A DARK BLAST MARK IS VISIBLE ON THE EMBANKMENT AT THE
END OF THE DIFFUSER AT TEST STAND NO 2. THIS STAND IS
ALMOST AN EXACT DUPLICATE OF TEST STAND NO 2 AT THE
PERM ROCKET ENGINE TEST FACILITY. CONSIDERABLE EARTH
SCARRING FROM TEST ACTIVITY IS APPARENT AT TEST STAND
NO 1. THE WESTERNMOST TEST CELL AT THE OLDEST TEST
CELL BUILDING IS UNDERGOING ALTERATION. THE BLAST PIT
HAS BEEN PARTIALLY FILLED WITH EARTH AND A CONSTRUCTION
CRANE IS IN OPERATION NEARBY. THE EARTHEN REVETMENT
FOR 2 NEARBY PROBABLE HORIZONTAL TEST POSITIONS HAS
BEEN REMOVED. THE REMAINING BLAST PIT AT THE OLDEST
TEST CELL BUILDING CONTAINS DARK STAINS FROM CONTINUING
TEST ACTIVITY.

SIX RAIL CARS AND A PROBABLE TANK TRUCK ARE AT THE AIR
LIQUEFACTION PLANT. TWO TANK CARS ARE AT THE POSSIBLE
PROPELLANT STORAGE AND HANDLING BUILDING NEAR TEST
STANDS 1 AND 2. CONSTRUCTION IS NEARING COMPLETION ON
A LARGE ADMINISTRATION BUILDING NEAR THE CENTER OF THE
FACILITY. NO MISSILES OR MISSILE EQUIPMENT OBSERVED.

25X1D

(SEE ATTACHMENT)

PERM ROCKET ENGINE TEST FACILITY

UR 5800N 05634E

TEST STAND NO 2 IS COMPLETE AND IS ALMOST AN EXACT
DUPLICATE OF TEST STAND NO 2 AT THE VORONEZH ROCKET
ENGINE TEST FACILITY. A SLIGHTLY DOWNWARD DIRECTED
DIFFUSER PROTRUDES FROM THE FRONT OF THE STAND AND 4
TALL VENT STACKS ARE ON TOP OF THE TEST STAND
STRUCTURE. NO BLAST MARKS OR STAINS ARE APPARENT AT
THE END OF THE DIFFUSER. TEST STAND NO 1 ALMOST

X1

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TOP SECRET

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25X

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DUPLICATES STAND NO 1 AT THE KURUMOCH ROCKET ENGINE TEST FACILITY. A SMALL BLAST DEFLECTOR IS VISIBLE IN FRONT OF THE BLAST PIT AND STAINS NEARBY ARE INDICATIVE OF TEST ACTIVITY. THE LARGE POSSIBLE FABRICATION BUILDING IN THE CENTER OF THE FACILITY HAS A HIGH-BAY SECTION IN THE CENTER, NUMEROUS TALL ROOF VENTS ON THE LOW SECTIONS, AND ON/OFF LOADING CRANES AT EACH END. THE LOW SECTIONS MAY CONTAIN SMALL WORKSHOPS. CONSIDERABLE ACTIVITY IS VISIBLE THROUGHOUT THE FACILITY. VEHICLES, RAIL CARS, CRATES, AND TANKS IN OPEN STORAGE ARE VISIBLE. NO NEW CONSTRUCTION OBSERVED.

25X1D

(SEE ATTACHMENT)

25X1A

KRASNOARMEYSK SOLID MOTOR DEV FACILITY: UR 5609N 03810E

IN THE LARGE HORIZONTAL TEST AREA (TEST AREA A), 2 SMALL ROCKET MOTOR TEST BUILDINGS ARE NEWLY IDENTIFIED, A NEW BUILDING IS UNDER CONSTRUCTION, AN ADDITION/SCAFFOLD IS AT THE WEST END OF ONE OF THE ORIGINAL TEST BUILDINGS, AND 19 CYLINDRICAL OBJECTS ARE SCATTERED ON THE GROUND.

A SMALL HORIZONTAL TEST AREA (TEST AREA B) IS NOW IDENTIFIED. IT CONTAINS A HORSESHOE-SHAPED TEST REVETMENT AND APPROXIMATELY 8 BUILDINGS.

THREE SMALL PROBABLE TEST AREAS, A SHELL TESTING/FIRING RANGE, A PROBABLE AERODYNAMIC TEST BUILDING, AND APPROXIMATELY 50 RAIL CARS OF VARIOUS SIZES ARE NEWLY IDENTIFIED IN OTHER PORTIONS OF THE FACILITY.

25X1D

(SEE ATTACHMENT)

ORENBURG AIRFRAME PLANT 47

UR 5148N 05507E

NO CHANGES OBSERVED AT THE AIRFRAME PLANT. CONSTRUCTION CONTINUES ON THE BUILDINGS IN THE SEPARATELY SECURED AREA ON THE EAST EDGE OF THE PLANT. NO ADDITIONAL ACTIVITY IS OBSERVED AT THE PREVIOUSLY REPORTED WORKSHOP UNDER CONSTRUCTION.

23

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TOP SECRET

25X
25X

TOP SECRET

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FIFTEEN LONG RAIL CARS ARE VISIBLE ON SIDINGS NEAR A LARGE ASSEMBLY BUILDING IN THE CENTER OF THE PLANT. NINETY-TWO PROBABLE CRUISE-MISSILE SHIPPING CRATES ARE IDENTIFIED THROUGHOUT THE PLANT AREA.

25X1D

25X1A

BIYSK ROCKET MOTOR TEST FACILITY

UR 5229N 08507E

A HIGH DEGREE OF ACTIVITY IS EVIDENT IN THE TEST FACILITIES AND IN THE ASSOCIATED MOTOR AND PROPELLANT PRODUCTION FACILITIES. A LARGE APPARENT SOLID ROCKET MOTOR, APPROXIMATELY [REDACTED] IN DIAMETER, IS MOUNTED IN A FIRING POSITION AT THE ISOLATED TEST POSITION. A WELL-DEFINED BLAST MARK APPROXIMATELY 15 FT WIDE AT THE MID-POINT IS ALSO OBSERVED. THE BLAST MARK IS LIGHT TONED AND HAS A TOTAL LENGTH OF APPROXIMATELY [REDACTED] IT IS SEPARATED FROM THE END OF THE MOTOR BY [REDACTED] A SMALL POSSIBLE SOLID ROCKET MOTOR APPROXIMATELY [REDACTED] IN DIAMETER IS ON A RAIL SPUR IN THE MAIN TEST FACILITY WHERE THE PREVIOUSLY REPORTED CONSTRUCTION ADJACENT TO THE SMALLER OF THE 2 TEST POSITIONS CAN NOW BE IDENTIFIED AS 2 SMALL BUILDINGS OR LARGE HORIZONTAL TANKS WHICH ARE PROBABLY SUPPORT FOR THE SMALL TEST CELL. THE 2 ROCKET MOTORS HAVE DIMENSIONS THAT APPROXIMATE THE FIRST AND SECOND STAGES OF THE SAVAGE MISSILE.

25X1D

25X1D

25X1D

25X1D

(SEE ATTACHMENT)

25X6

KAMYSHIN PROB LONG RANGE SAM SEARCH

UR 4208N 04140E

PHOTOGRAPHY ONLY COVERS THE KAPUSTIN YAR SAM RANGEHEAD. NO NEW LONG RANGE SAM COMPLEXES OBSERVED.

25X1D

25X1A

TOP SECRET

TOP SECRET

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25X
25X

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25X1A

GUBA PALA NAVAL BASE AND SHIP REPAIR YARD UR 6911N 03325E

25X1D

OB -- 2 E-II-SSGN IN FLOATING DOCKS, 1 N-SSN, 3 F/Z-SS, 2 W/R-SS IN FLOATING DOCK, 1 DNEPR-AR, 1 ATREK-ASL, 1 MP-4-LSC, 1 ZEYA-YRSN, 2 POLNOCNYY-LSM, 10 T-4 LCM, 3 AUXILIARIES, 1 CARGO VESSEL, 2 FLOATING CRANES, 2 FLOATING DOCKS, AND 15 SMALL CRAFT.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

GUBA LITSA SUBMARINE BASES NORTH & SOUTH UR 6926N 03224E

25X1D

OB -- SOUTH BASE -- 1 E-2-SSGN, 2 N-SSN, 1 F-SS, 1 P-6 PT HULL, 1 UGRA-AS, 1 PRUT-ASR, 1 BOLVA-APL, AND 2 UNIDENTIFIED AUXILIARIES.

NORTH BASE -- 3 J-SSG, 1 K-1-SS, 1 ATREK-ASL, 1 ASL, 1 BOLVA-APL, 1 YR, 1 FLOATING CRANE, AND SEVERAL SMALL CRAFT.

ONE BOLVA-APL AND 3 SMALL VESSELS ARE ANCHORED IN THE BAY.

ONE NEW BUILDING IS UNDER CONSTRUCTION AT THE SOUTH BASE. NO NUCLEAR STORAGE AREA OBSERVED.

LENINGRAD NW PROB LONG RANGE SAM LCH CPLX UR 6027N 02942E

25X1D

ADDITIONAL TREES HAVE BEEN REMOVED SINCE [] BETWEEN THE TRACKING/GUIDANCE FACILITY AND LAUNCH SITES B AND C AND BETWEEN LAUNCH SITES A AND B.

25X1D

A SMALL SQUARE STRUCTURE IS NEWLY OBSERVED ALONG THE SOUTHERN EDGE OF THE LEVELED AREA ADJACENT TO THE EARTH-COVERED PREVIOUSLY DESIGNATED COMPLEX CONTROL CENTER.

A LAUNCHER IS INSTALLED AT THE LAUNCH POINT OF EACH

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TOP SECRET

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KH-7 MISSION 4037, 23-30 MAY 1967

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25X

POSITION AT THE 5 LAUNCH SITES. TWO VEHICLES/PIECES OF EQUIPMENT ARE ON THE PERIMETER ROAD OF LAUNCH SITE A.

EACH RADAR POSITION AND THE CONTROL CENTER OF THE TRACKING/GUIDANCE FACILITY ARE OCCUPIED.

25X1D A NUMBER OF VEHICLES/PIECES OF EQUIPMENT ARE PARKED ON THE APRON SERVING THE LARGE BUILDING AT THE NORTHERN EDGE OF THE SUPPORT AREA. NO MISSILES ARE DISCERNIBLE AT THE COMPLEX. NO CHANGE IS OBSERVED IN THE STATUS OF THE ELEVATED STRUCTURES (BEER CANS) AT THE OUTRIGGER POSITIONS, THE FORMER ELECTRONICS AREA.

25X1A

TALLINN PROB LONG RANGE SAM LCH CPLX UR 5924N 02419E

A MAJOR PORTION OF THE COMPLEX IS OBSCURED BY CLOUD COVER.

25X1D

CABLES/CONDUITS HAVE BEEN INSTALLED WITHIN LAUNCH SITE D AND BETWEEN SITE D AND THE TRACKING/GUIDANCE FACILITY SINCE MISSION [REDACTED] SEVERAL VEHICLES/PIECES OF EQUIPMENT ARE PARKED ON THE APRON SERVING THE 2 LARGE REVETTED BUILDINGS IN THE MISSILE HANDLING FACILITY.

A POSSIBLE MISSILE IS ON THE LAUNCHER AT POSITION B-5. HAZE PRECLUDES DETAILED INTERPRETATION OF THE MISSILE CONFIGURATION.

NO OTHER CHANGES OBSERVED IN CLOUD-FREE AREAS.

THE AIR WARNING RADAR FACILITY 3.5 NM SE OF THE LAUNCH COMPLEX IS BARELY VISIBLE. OCCUPANCY IS UNDETERMINED. AT THE ASSOCIATED UNIDENTIFIED FACILITY LOCATED APPROXIMATELY 2,800 FT SE, AN EXTENSION OF THE APRON/ROAD ADJACENT TO THE REVETMENT/BUNKER HAS BEEN CONSTRUCTED SINCE MISSION [REDACTED] A VEHICLE/PIECE OF EQUIPMENT IS ON A SHORT ROAD SPUR EXTENDING FROM THE ROAD BETWEEN THE 2 POSITIONS OF THE ASSOCIATED UNIDENTIFIED FACILITY LOCATED APPROXIMATELY 3,800 FT SE OF THE AIR WARNING RADAR FACILITY.

25X1D

25X1D

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KH-7 MISSION 4037, 23-30 MAY 1967

25X1A

ALI-BAYRAMLY SAM SITE B17-3

UR 3938N 04859E

25X1D

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW
CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY
UNREPORTED FEATURES OBSERVED.

LENKORAN SAM SITE B36-3

UR 3859N 04848E

25X1D

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW
CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY
UNREPORTED FEATURES OBSERVED.

25X1D

SUROVATIKHA REGIONAL MILITARY STOR INSTLN UR 5543N 04352E

TWO LARGE BUILDINGS HAVE BEEN COMPLETED AND 1 BUILDING
HAS BEEN DISMANTLED SINCE MISSION [REDACTED]
APPROXIMATELY 103 RAIL CARS ARE OBSERVED IN THE AREA.

TAMBOV REGIONAL MILITARY STORAGE INSTLN

UR 5227N 04127E

CLOUDS OBSCURE THE EASTERN PORTION OF THE STORAGE AREA.
FIVE NEW FLAT-ROOFED DRIVE-THROUGH BUILDINGS, ONE WITH
A PROBABLE GANTRY CRANE AT THE NORTH ENTRANCE, AND
FOUNDATIONS FOR AN ADDITIONAL BUILDING ARE VISIBLE IN
THE NW SECTION OF THE STORAGE AREA. CONSTRUCTION OF
RAMPS AT THE BUILDING ENTRANCES IS UNDERWAY.
CONSTRUCTION APPEARS COMPLETE ON 4 SEMI-BURIED TANKS ON
THE ACCESS ROAD TO THE STORAGE AREA. CONSTRUCTION IS
COMPLETE ON 1 MULTISTORY FLAT-ROOFED BUILDING AND 1
MULTISTORY HIP-ROOFED BUILDING ON THE WESTERN EDGE OF
THE HOUSING AREA.

25X1D

APPROXIMATELY 200 CARGO/FUEL-TYPE VEHICLES, 60 POSSIBLE
FUEL TRAILERS, 200 POSSIBLE MISSILE TRANSPORTERS, AND
NUMEROUS UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE
OBSERVED THROUGHOUT THE STORAGE AREA. SIX RAIL CARS
ARE VISIBLE SE OF THE STORAGE AREA, AND 6 ADDITIONAL
RAIL CARS ARE ON A SPUR EAST OF THE STORAGE AREA. AN
UNIDENTIFIED VEHICLE/STORAGE CONTAINER IS VISIBLE

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K1

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KH-7 MISSION 4037, 23-30 MAY 1967

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25X1D

ADJACENT TO THE RAIL CARS ON THE EASTERN SPUR, AND 6
MISSILE TRANSPORTERS ARE PARKED NEAR THE UNLOADING
PLATFORM.

25X1A

TOROPETS REGIONAL MIL STORAGE INSTLN

UR 5621N 03138E

APPROXIMATELY 103 RAIL CARS ARE OBSERVED. NO MISSILES
OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1D

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

**Air
Facilities**

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

25X

25X

25X1A

AIR FACILITIES

UKRAINA AIRFIELD

UR 5110N 12826E

OB -- 27 BISON, 1 BADGER, 1 CAT/CUB, AND 1 POSSIBLE CAB.

NO ASM FACILITY OBSERVED IN CLOUD-FREE AREAS.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D

NEZHIN AIRFIELD

UR 5105N 03152E

OB -- 20 BLINDER, 17 BADGER, AND 1 CAMEL.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D

ANADYR/LENINKA AIRFIELD

UR 6444N 17744E

OB -- 4 BADGER, 3 PROBABLE FARMER, 2 FAGOT/FRESCO, 1 PROBABLE FAGOT/FRESCO, 2 CAT/CUB, 3 CRATE, 3 CAB, 11 COLT, AND 2 HOUND.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1D

KUYBYSHEV AIRFRAME PLANT LENIN 18

UR 5312N 05018E

OB -- 5 CLEAT (1 WITH RADOME), 4 BEAR, 2 CRATE, 11 CAB, 1 COLT, AND 2 CREEK.

CONSTRUCTION CONTINUES ON A SMALL SUPPORT BUILDING IN THE WESTERN PORTION OF PLANT. NO OTHER CHANGES ARE OBSERVED. AT LEAST 37 SMALL SHIPPING CRATES ARE PRESENT NEAR THE DOORS OF THE FINAL ASSEMBLY HALL. NUMEROUS OTHER CRATES ARE SCATTERED THROUGHOUT THE PLANT AREA. REFURBISHING OF A BEAR AND CLEAT AIRCRAFT IS IN PROGRESS AT THE NORTHERN END OF THE PARKING

TOP SECRET

25X

25X

X1

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TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

25X1D

STAND.

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TOP SECRET

25X
25X

25X
25X

Nuclear Energy

25X2

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Next 5 Page(s) In Document Exempt

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**Electronics/
Communications**

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KH-7 MISSION 4037, 23-30 MAY 1967

25X1A

ELECTRONICS/COMMUNICATIONS

SARY-SHAGAN ASAT/SPACE TRACKING RADAR FAC UR 4636N 07431E

HEN HOUSE A -- NO SIGNIFICANT CHANGE IS OBSERVED ON THE DUAL HEN HOUSE STRUCTURE ITSELF. HOWEVER, THE [REDACTED] DIAMETER ENVIRONMENTAL DOME POSITIONED APPROXIMATELY 80 FT IN FRONT OF THE CONTROL BUILDING HAS BEEN REMOVED SINCE MISSION [REDACTED]

25X1D

25X1D

HEN HOUSE B -- A SMALL ENVIRONMENTAL DOME, SIMILAR TO THE DOME REMOVED AT HEN HOUSE A, HAS BEEN EMPLACED APPROXIMATELY 75 FT IN FRONT OF THE CENTRAL CONDUIT (FEED STRUCTURE) OF THE LEFT ANTENNA STRUCTURE. AT THE RIGHT ANTENNA STRUCTURE, ALL OF THE PREVIOUSLY HORIZONTAL SECTIONS HAVE BEEN RAISED TO FORM A V-LIKE TROUGH WITH AN ANTENNA COVERING/ANTENNA FACE EMPLOYED OVER THE TOP.

HEN HOUSE C -- ALL 20 OF THE APPROXIMATELY 60 X 40-FT SECTIONS HAVE BEEN EMPLACED HORIZONTALLY OVER THE RIGHT FRONT SUPERSTRUCTURE. AT THE RIGHT REAR STRUCTURE, ALL OF THE SUPERSTRUCTURE IS IN PLACE BUT NO 60 X 40-FT SECTIONS HAVE BEEN EMPLACED. NINETEEN SECTIONS ARE IN PLACE OVER THE LEFT FRONT SUPERSTRUCTURE WITH ONLY ONE SECTION MISSING NEAR THE CENTER OF THE STRUCTURE. NO APPARENT CHANGE IS OBSERVED AT THE LEFT REAR STRUCTURE SINCE MISSION [REDACTED] THE FRONT SIDE OF THE CENTRAL CONDUIT (FEED STRUCTURE) AT THE LEFT ANTENNA STRUCTURE IS UNCOVERED AT BOTH ENDS. TWO LIGHT-TONED STRIATIONS ARE OBSERVED RUNNING PARALLEL DOWN THE CENTRAL CONDUIT. A TOTAL OF 3 LIGHT-TONED STRIATIONS COULD BE OBSERVED RUNNING THE ENTIRE LENGTH OF THE CENTRAL CONDUIT WHEN IT WAS COMPLETELY UNCOVERED ON MISSION [REDACTED]

25X1D

25X1D

HEN HOUSE D -- BOTH ANTENNA STRUCTURES APPEAR COMPLETE WITH ANTENNA FACES/ANTENNA COVERINGS SIMILAR TO THOSE OBSERVED AT THE OTHER COMPLETED DUAL HEN HOUSES AT SARY-SHAGAN AND MISHELEVKA. THE ROOF OF THE CONTROL BUILDING IS BEING PAINTED OR COVERED WITH A PROTECTIVE SUBSTANCE. A DARK STRIATION, POSSIBLY A WALKWAY, IS BEING EMPLACED ADJACENT TO THE REAR OF THE RIGHT ANTENNA STRUCTURE. IT EXTENDS THREE-FOURTHS OF THE DISTANCE FROM THE TERMINAL BUILDING TO THE TRANSMITTER BUILDING.

25X1D

TRIAD AREA -- NO SIGNIFICANT CHANGE IS OBSERVED SINCE MISSION [REDACTED]

TOP SECRET

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

SUPPORT AREAS -- 3 BUILDINGS HAVE BEEN DISMANTLED IN
THE SOUTH SUPPORT AREA SINCE MISSION

(SEE ATTACHMENT)

GORKIY/SORMOVO RADAR ASBLY & TEST AREA

UR 5619N 04347E

THE FACILITY CONTAINS 5 ENGAGEMENT RADAR ASSEMBLY BASES
(3 EMPTY, 1 CONTAINING A PARTIALLY ASSEMBLED PROBABLE
LONG RANGE SAM RADAR, AND 1 CONTAINING AN ASSEMBLED
PROBABLE LONG RANGE SAM RADAR THAT IS ROTATING). THE
ASSEMBLY AREA REMAINS ACTIVE. MORE THAN 30 RADAR
TRANSPORT VEHICLES ARE PARKED THROUGHOUT THE AREA. TWO
POSSIBLE FAN SONG RADAR COMPONENTS AND ASSOCIATED VANS
ARE OBSERVED IN ANOTHER PORTION OF THE YARD.

TSAGAAN OLOM RADAR SEARCH AREA

MG 4649N 09632E

THE CENTER 70 PERCENT OF THE SEARCH AREA IS COVERED ON
CLOUD-FREE PHOTOGRAPHY. NO RADAR OBSERVED.

TOP SECRET

**Military
Activity**

K1

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KH-7 MISSION 4037, 23-30 MAY 1967

25X
25X

25X1A

MILITARY ACTIVITY

SPASSK-DALNIY TACTICAL SSM SUPPORT FAC UR 4432N 13251N

3.5 NM SE OF SPASSK-DALNIY AND 1.5 NM NE OF KRASNYY KUT.

SECURED INSTALLATION CONSISTS OF AN ADMINISTRATION AND BARRACKS AREA, A MISSILE SUPPORT AREA, A MISSILE AND WARHEAD STORAGE AREA, AND 2 FUEL/PROPELLANT STORAGE AREAS.

THE ADMINISTRATION AND BARRACKS AREA CONTAINS 1 ADMINISTRATION BUILDING, 5 BARRACKS, 5 SUPPORT BUILDINGS, AND AN ATHLETIC FIELD. THE MISSILE SUPPORT AREA LOCATED SE OF THE ADMINISTRATION AND BARRACKS AREA CONTAINS 3 DRIVE-THROUGH MISSILE SERVICE BUILDINGS, 5 VEHICLE STORAGE BUILDINGS, A CONCRETE HARDSTAND WITH AN INCLINED BLAST DEFLECTOR SIMILAR TO THOSE UTILIZED AT SOVIET AIRFIELDS TO TEST JET ENGINES, 12 SUPPORT BUILDINGS, AND A HEATING PLANT.

25X9

25X9

ARCH-ROOFED MISSILE STORAGE BUILDINGS, 1 PARTIALLY REVETTED, DRIVE-THROUGH MISSILE SERVICE BUILDING WITH A SMALL BRIDGE CRANE NEAR ONE END OF THE BUILDING, A STORAGE BUILDING, A SECURITY BUILDING, AND 2 SMALL SUPPORT BUILDINGS. ONE FUEL/PROPELLANT STORAGE AREA NORTH OF THE ADMINISTRATION AND BARRACKS AREA CONTAINS 22 HORIZONTAL FUEL STORAGE TANKS, APPROXIMATELY 12 PROBABLE OXIDIZER STORAGE DRUMS, AND 4 SUPPORT BUILDINGS. THE SECOND FUEL/PROPELLANT STORAGE AREA IS IMMEDIATELY SOUTH OF THE SUPPORT AREA AND CONTAINS 8 HORIZONTAL FUEL STORAGE TANKS, APPROXIMATELY 15 PROBABLE OXIDIZER STORAGE DRUMS, AND A SMALL SUPPORT BUILDING.

OB -- 2 SS-1 SCUD MISSILE TRANSPORT SEMITRAILERS WITH TRUCK TRACTORS, 4 PROBABLE A-FRAME CRANE SEMITRAILERS WITH TRUCK TRACTORS, 2 MISSILE DOLLIES, 1 TRUCK TRACTOR, 1 TRUCK-MOUNTED CRANE, 2 BAT BULLDOZERS, 1 LOWBED TRAILER, 4 TRACKED PRIME MOVERS, 5 VAN TRUCKS, 22 CARGO TRUCKS, 3 SMALL TRAILERS, AND 8 OTHER VEHICLES/PIECES OF EQUIPMENT.

25X1D

TOP SECRET

25
25

Complexes

K1

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TOP SECRET

25X
25X

KH-7 MISSION 4037, 23-30 MAY 1967

25X1A

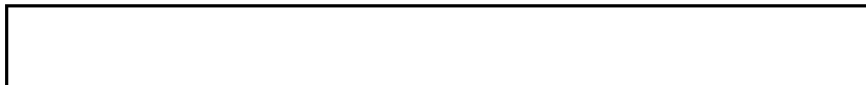
COMPLEXES

Khabarovsk RR Yards and Shops

UR 4826N 13507E

25X1D

NO MISSILES, MISSILE EQUIPMENT, OR MISSILE-ASSOCIATED
CRATES OBSERVED IN CLOUD-FREE AREAS.



Zabaykalsk RR Transloading Yard

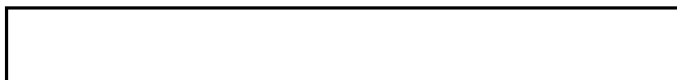
UR 4938N 11719E

25X1D

NO SSM EQUIPMENT DISCERNIBLE. IN ADDITION TO THE
NORMAL BOX AND TANK CARS, APPROXIMATELY 16 FLAT CARS
ARE OBSERVED, EACH CARRYING AN UNIDENTIFIED
CANVAS-COVERED OBJECT, APPROXIMATELY



25X1D



Moskva Space Research Facility Tomilino

UR 5539N 03756E

BONUS 1

25X1D

9.8 NM NW OF THE CENTER OF MOSKVA/RAMENSKOYE AIRFIELD.
FACILITY OCCUPIES A FENCED ENCLOSURE CONTAINING
APPROXIMATELY 12 MAJOR STRUCTURES WHICH APPEAR TO BE
RESEARCH/ENGINEERING-TYPE BUILDINGS, 3 WIND TUNNELS OR
FAN-HOUSINGS WITH DUCTS, A LARGE BATTERY OF HORIZONTAL
PRESSURE TANKS THAT ARE CONNECTED BY PIPE TO A LARGE,
COMPLEX, 2-LEVEL BUILDING, A COOLING TOWER, A SMALL
COMPLEX OF PADS AND SMALL BUILDINGS WITH A PROBABLE
SMALL TOWER, AND NUMEROUS SUPPORT BUILDINGS. TWO SMALL
AIRCRAFT ARE POSITIONED ADJACENT TO THE EXIT ENDS OF 2
OF THE 3 WIND TUNNELS.

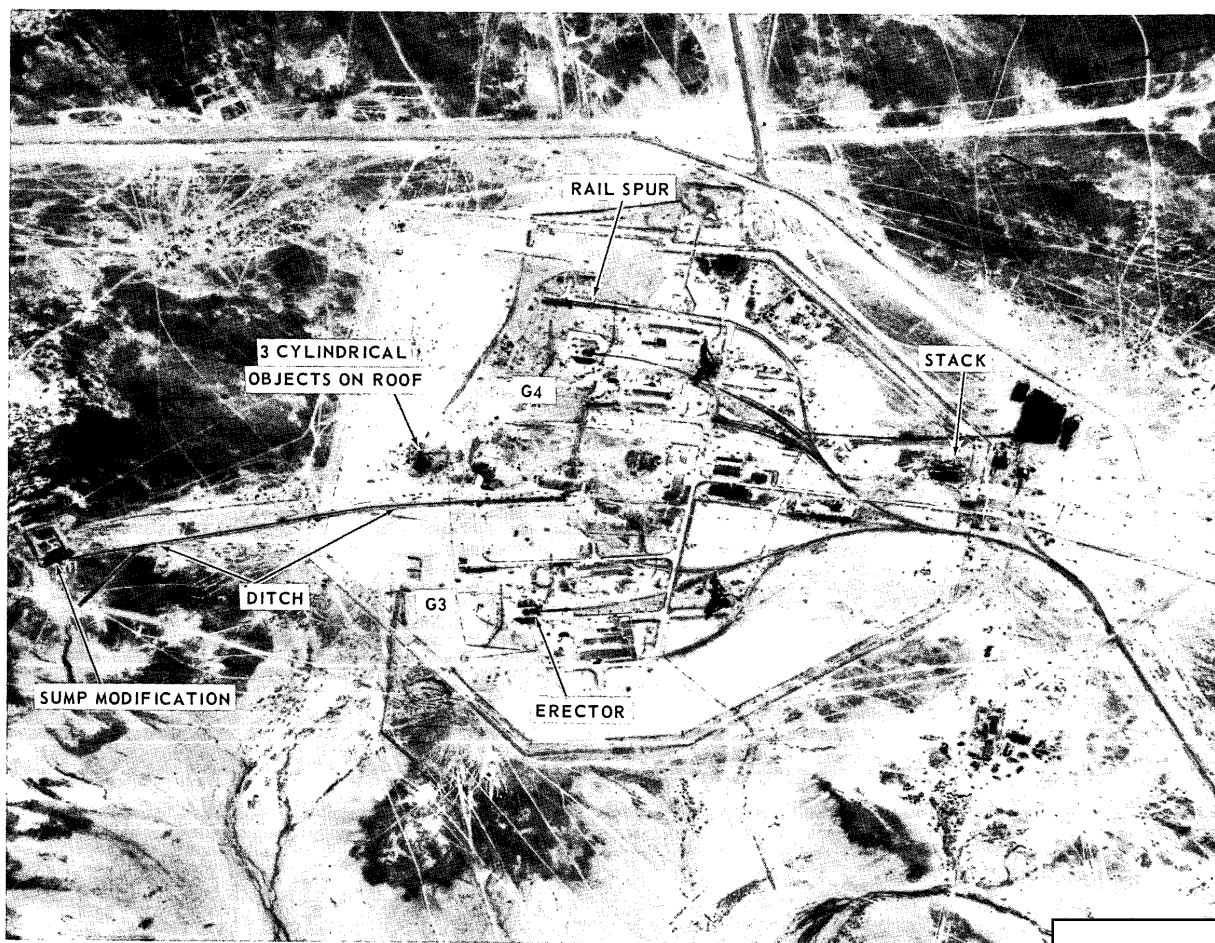


Attachments



LAUNCH AREA G1-G2, TYURATAM MISSILE TEST CENTER, USSR (COMOR)

25X1



LAUNCH AREA G3-G4, TYURATAM MISSILE TEST CENTER, USSR (COMOR [redacted])

25X1A

TOP SECRET

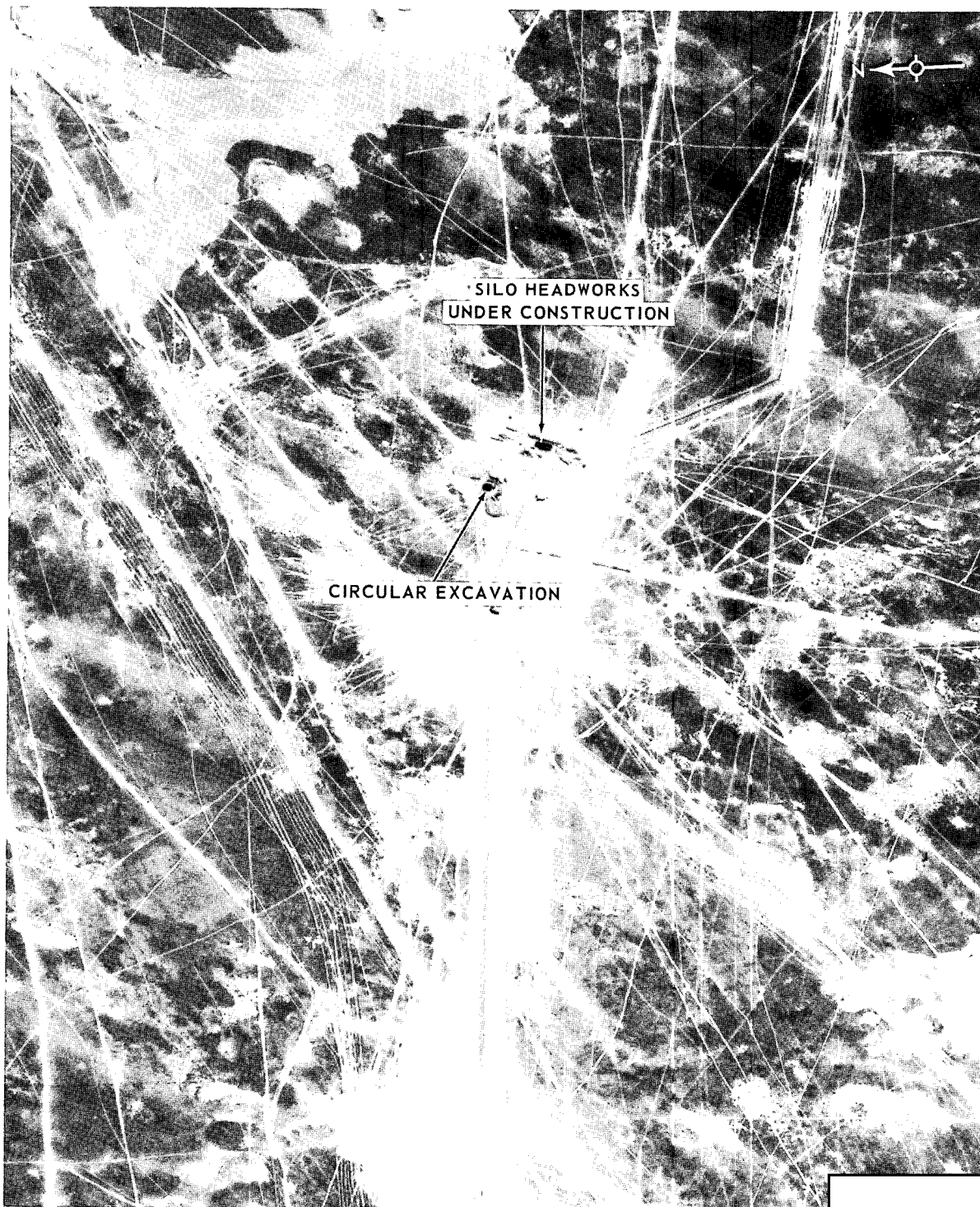
TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

ATTACHMENT 2

KH-7 MISSION 4037, 23-30 MAY 1967

ATTACHMENT 3



LAUNCH GROUP M (SITE M1), TYURATAM MISSILE TEST CENTER, USSR (COMOR)

25X1A



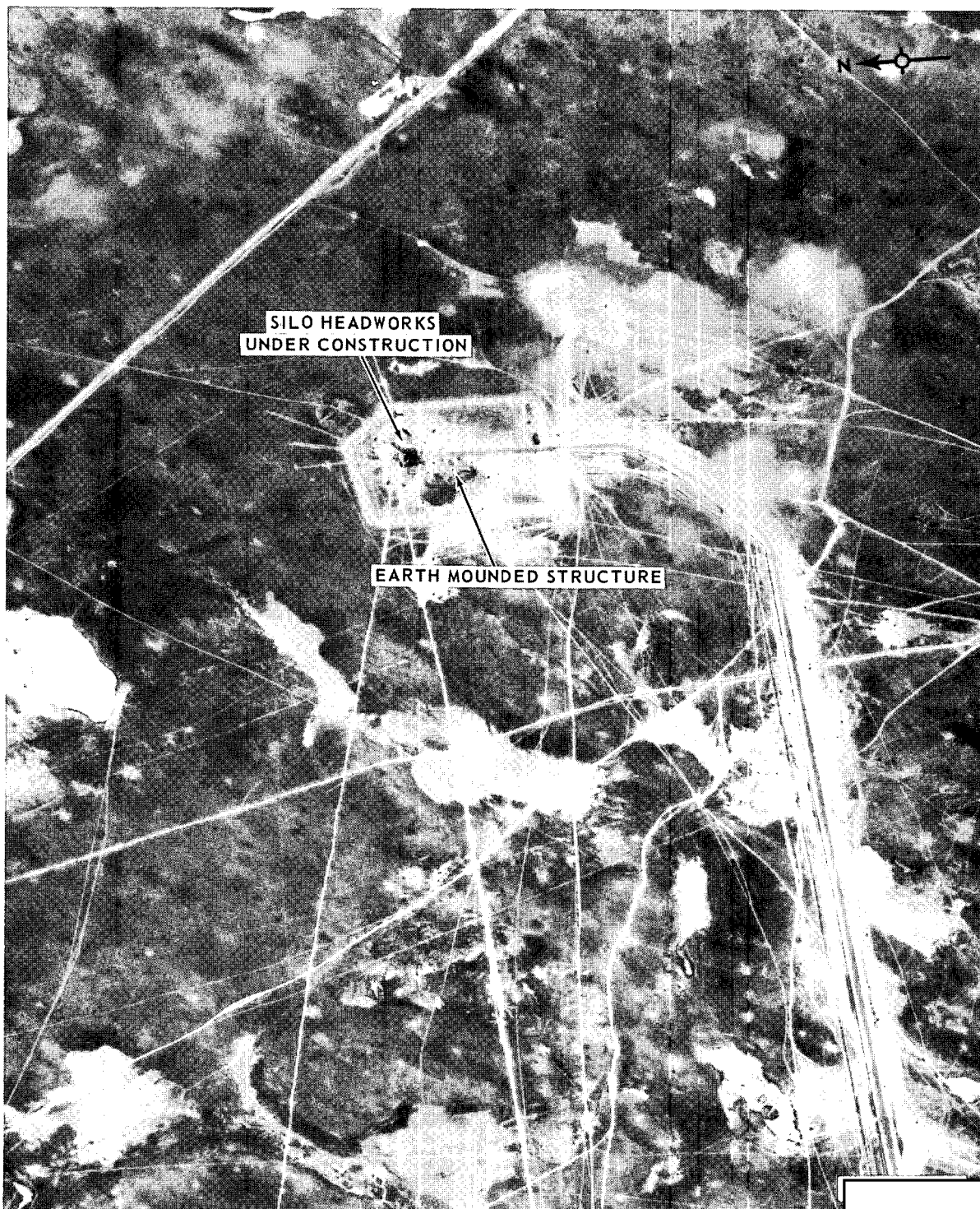
LAUNCH GROUP M (SITE M2), TYURATAM MISSILE TEST CENTER, USSR (COMOR)

25X1A

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

ATTACHMENT 5

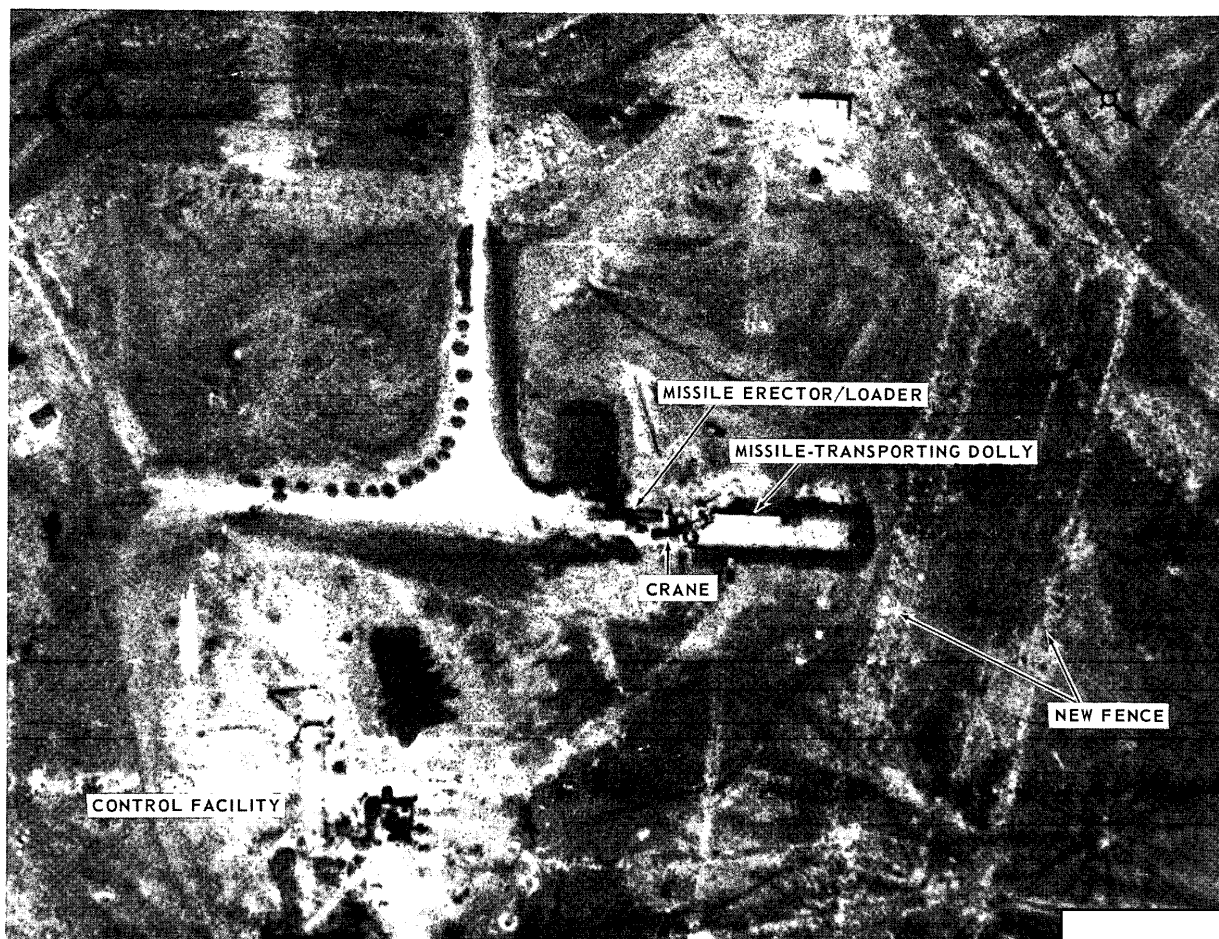


LAUNCH GROUP M (SITE M3), TYURATAM MISSILE TEST CENTER, USSR (COMOR)

25X1A

TOP SECRET

25X1



LAUNCH SITE 551, OLOVYANNAYA ICBM COMPLEX, USSR (COMOR

25X1

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

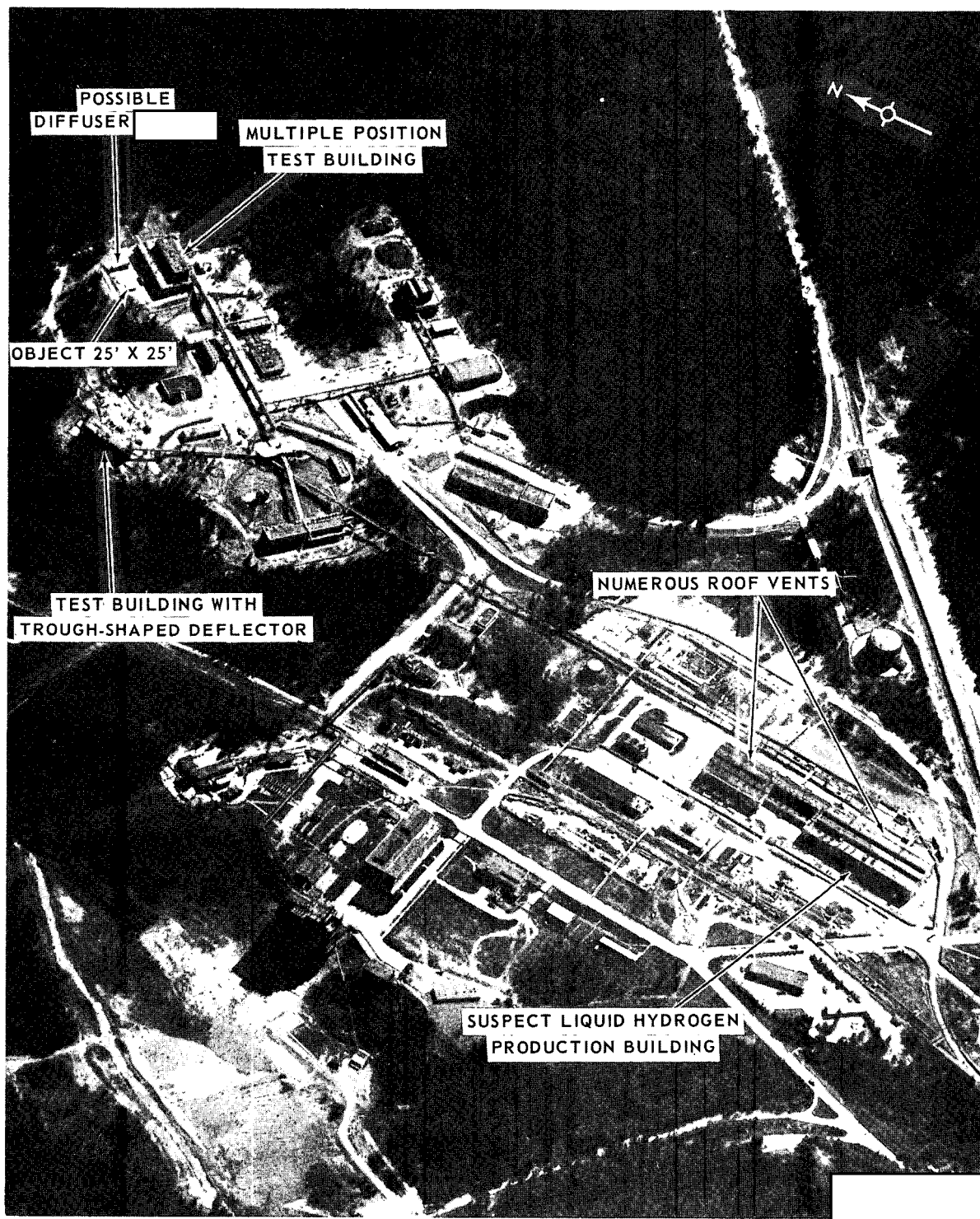
25X1

ATTACHMENT 6

25X1A

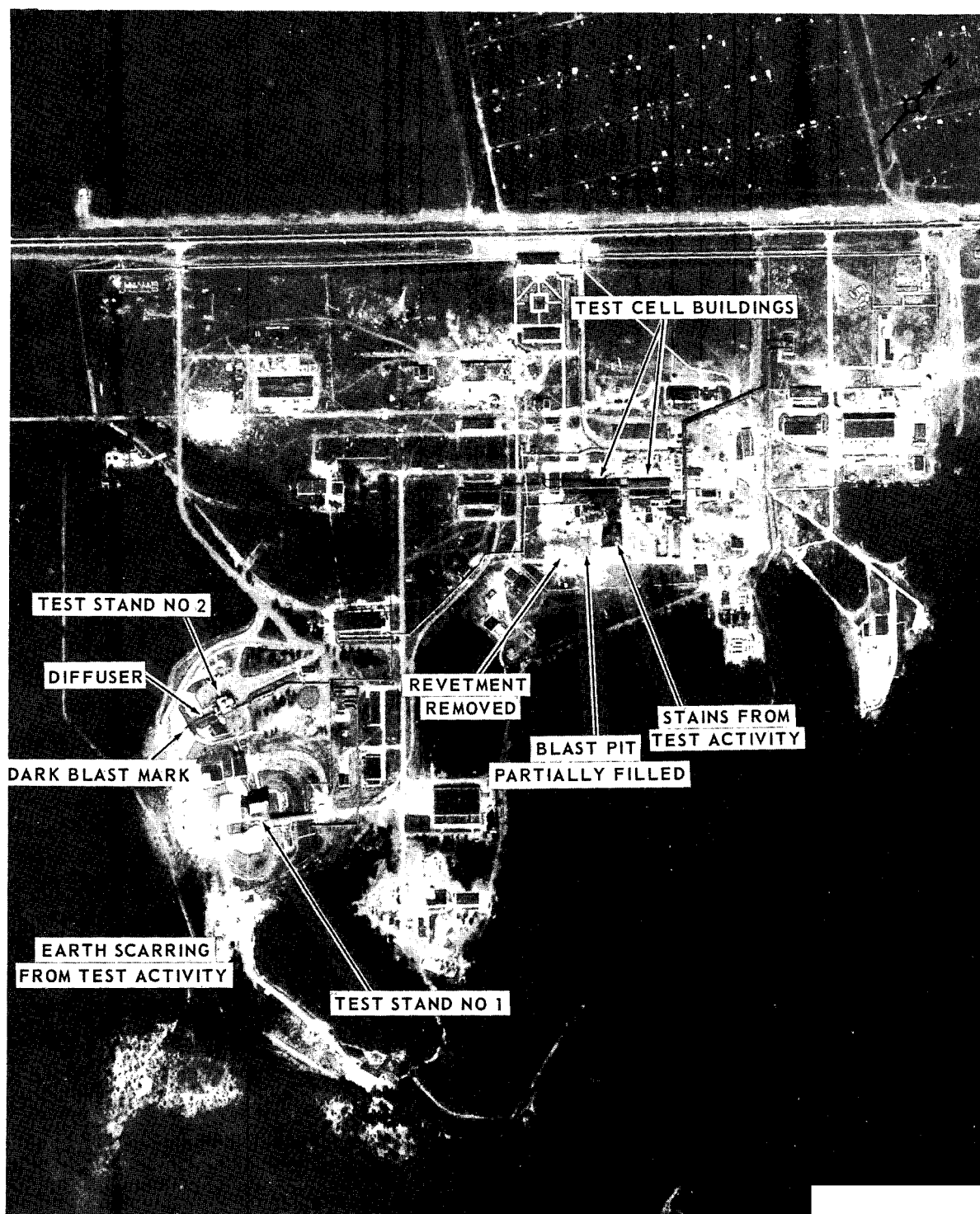
25X1

25X1D



ROCKET ENGINE TEST FACILITY, ZAGORSK, USSR (COMOR)

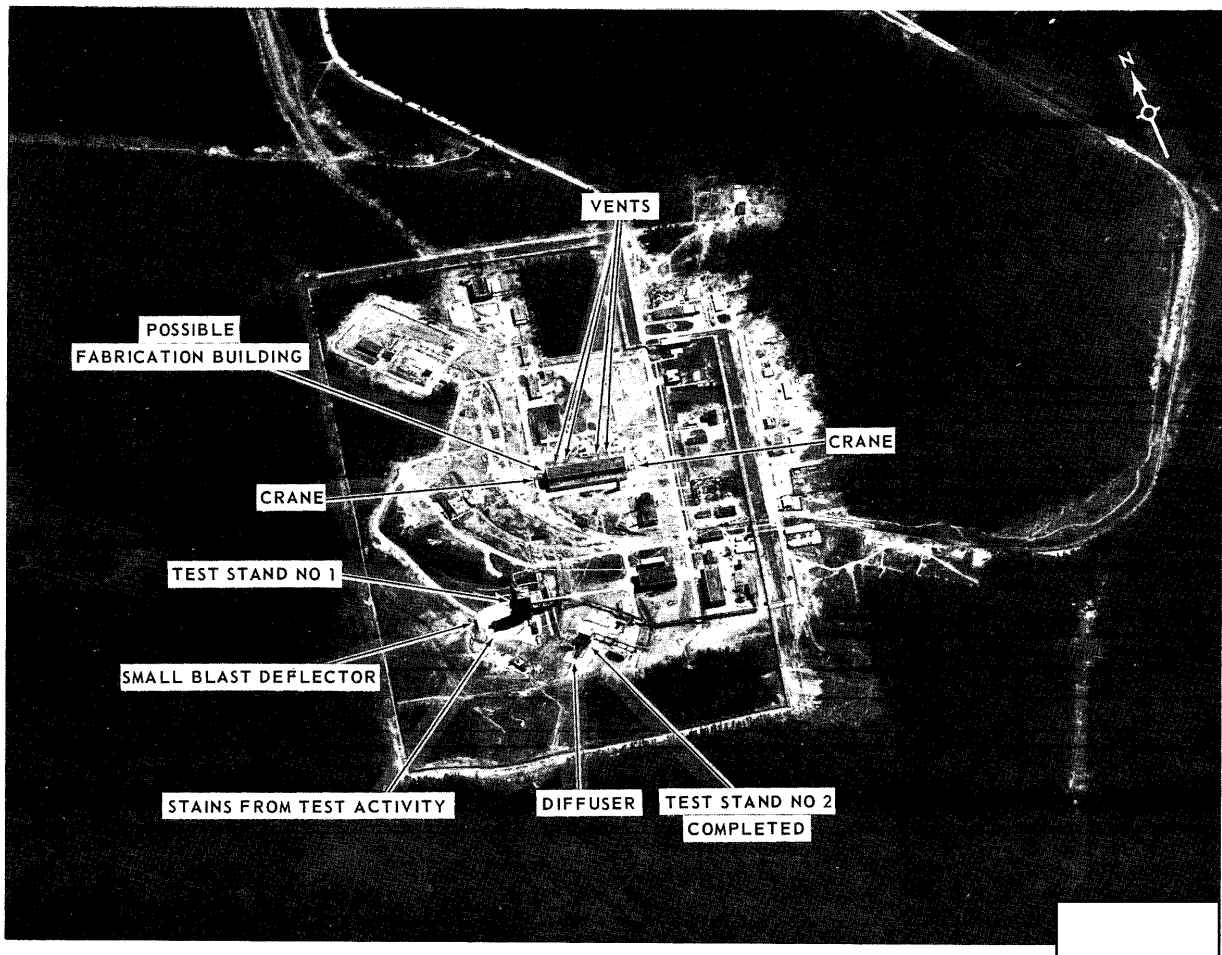
25X1A



ROCKET ENGINE TEST FACILITY, VORONEZH, USSR (COMOR)

25X1A

25X1



ROCKET ENGINE TEST FACILITY, PERM, USSR (COMOR)

25X1A

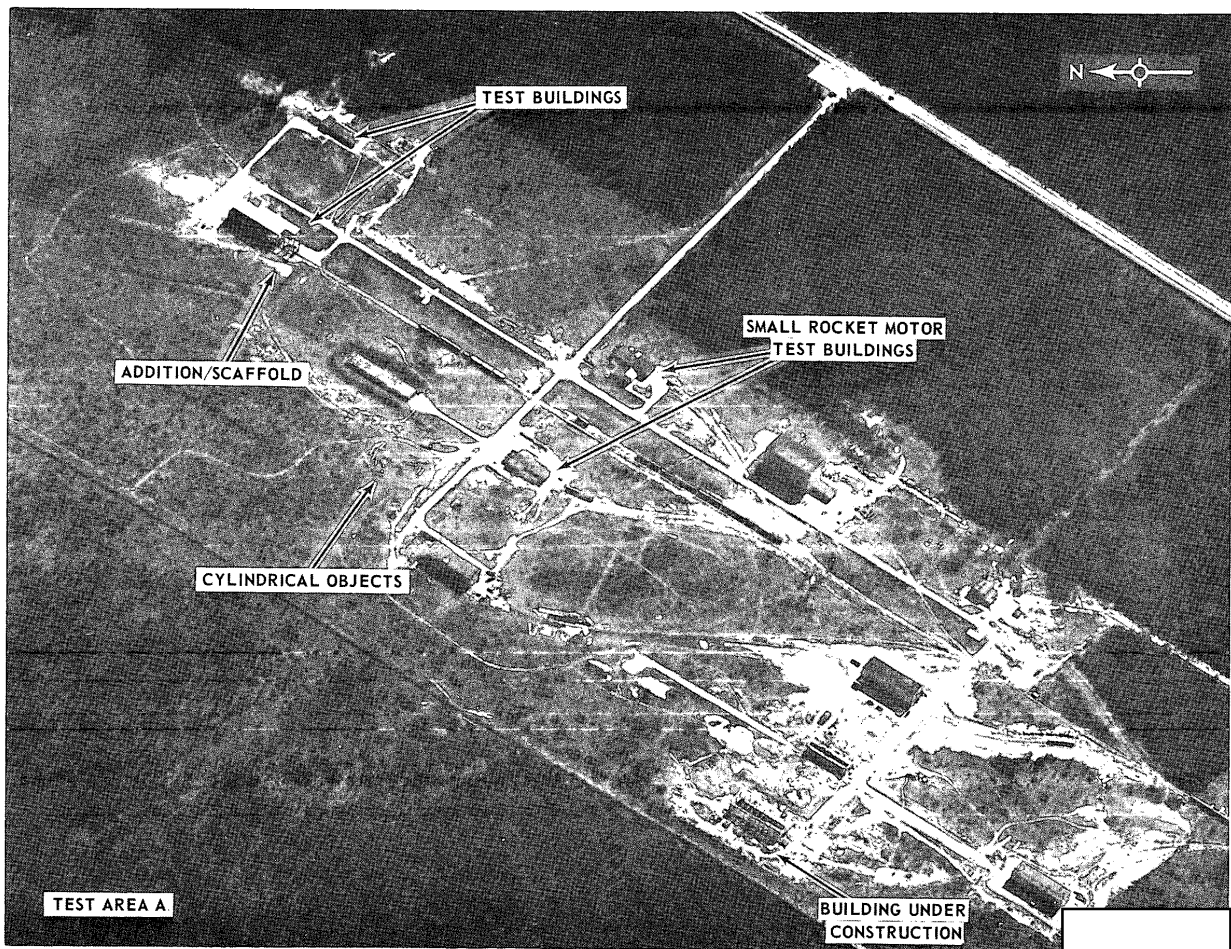
TOP SECRET

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KH-7 MISSION 4037, 23-30 MAY 1967

ATTACHMENT 9

25X1



SOLID MOTOR DEVELOPMENT FACILITY, KRASNOARMEYSK, USSR (COMOR)

25X1A

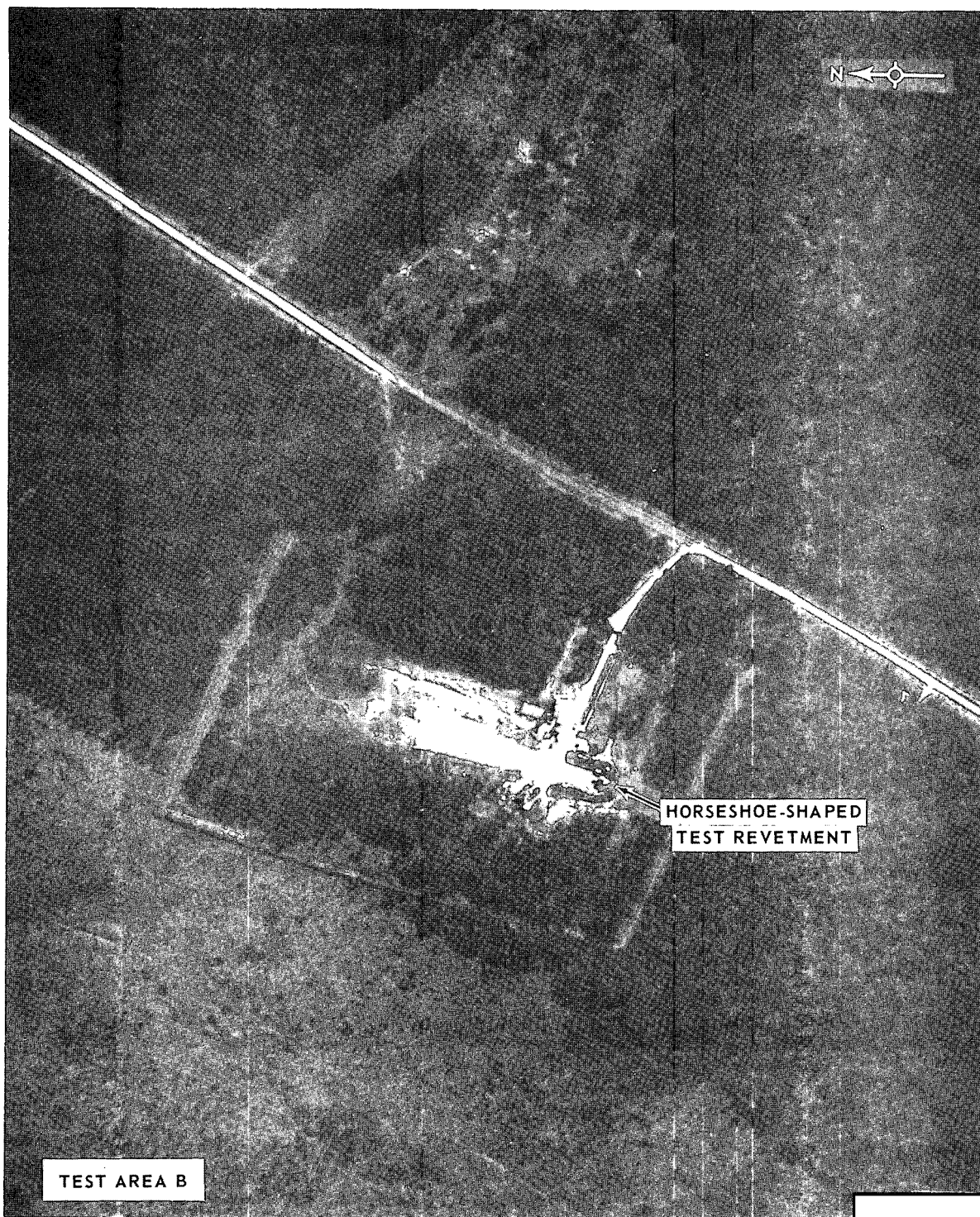
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KH-7 MISSION 4037, 23-30 MAY 1967

25X1

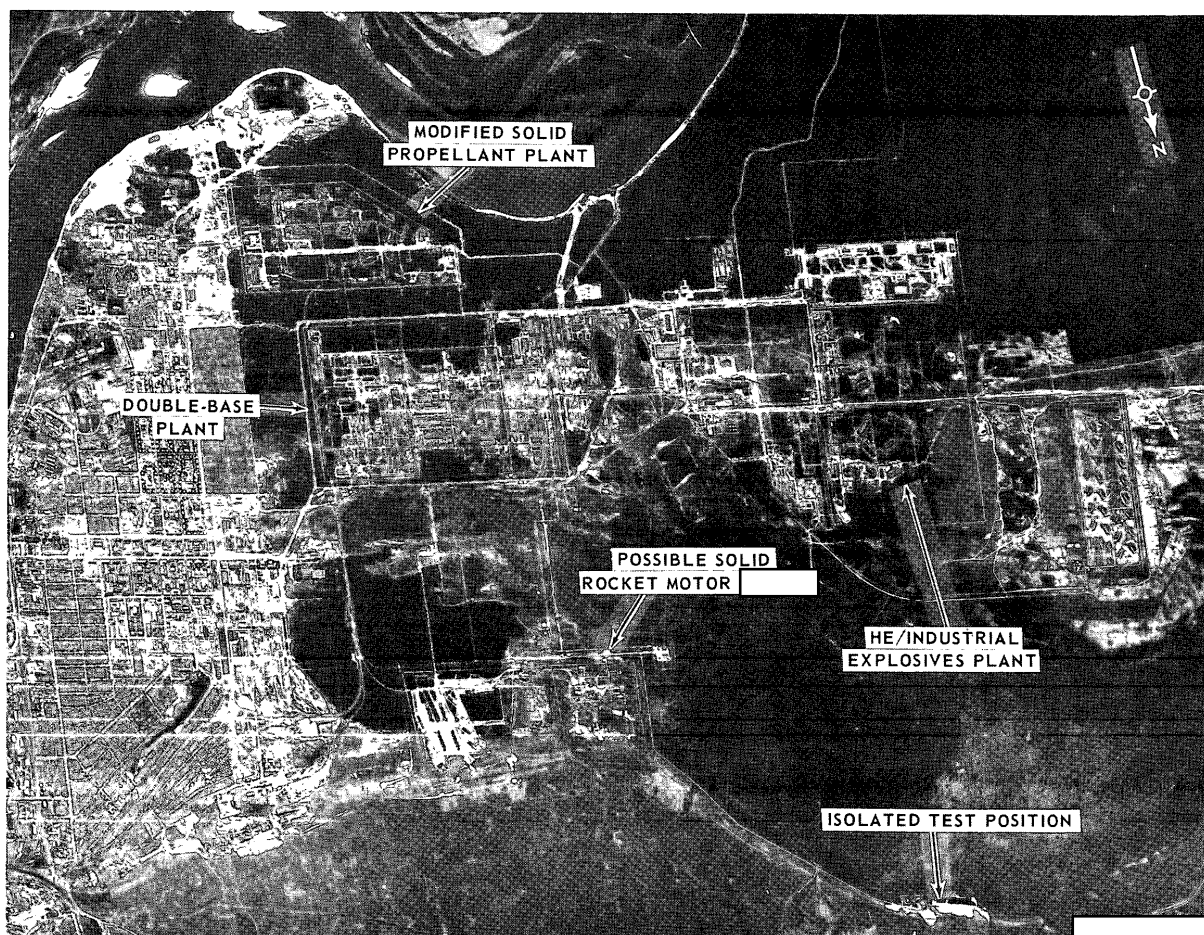
ATTACHMENT 10



SOLID MOTOR DEVELOPMENT FACILITY, KRASNOARMEYSK, USSR (COMOR)

25X1A

25X1



ROCKET MOTOR TEST FACILITY, BIYSK, USSR (COMOR)

25X1A

TOP SECRET

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

25X1D

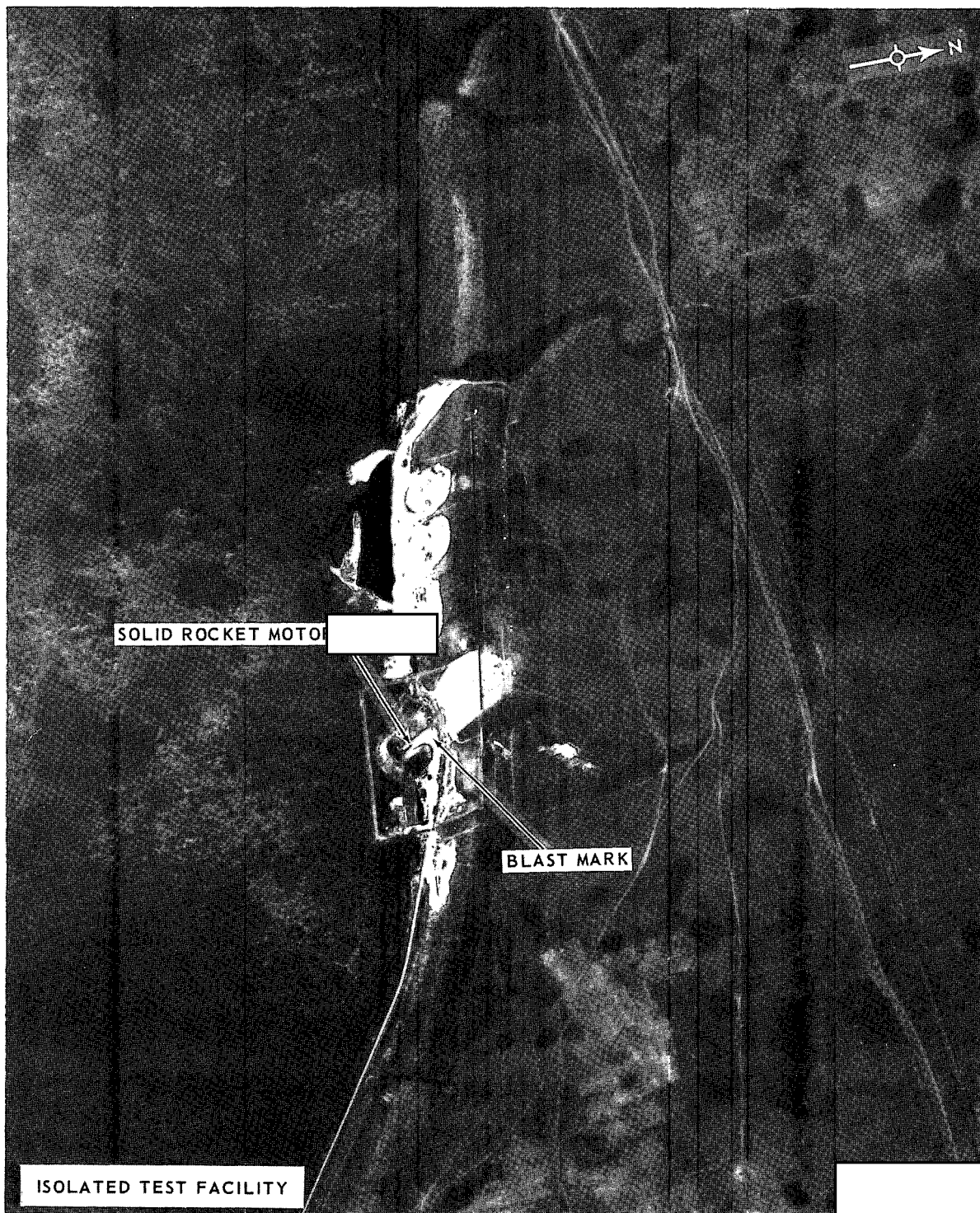
25X1

ATTACHMENT 12

TOP SECRET

KH-7 MISSION 4037, 23-30 MAY 1967

ATTACHMENT 13



ROCKET MOTOR TEST FACILITY, BIYSK, USSR (COMOR)

25X1A

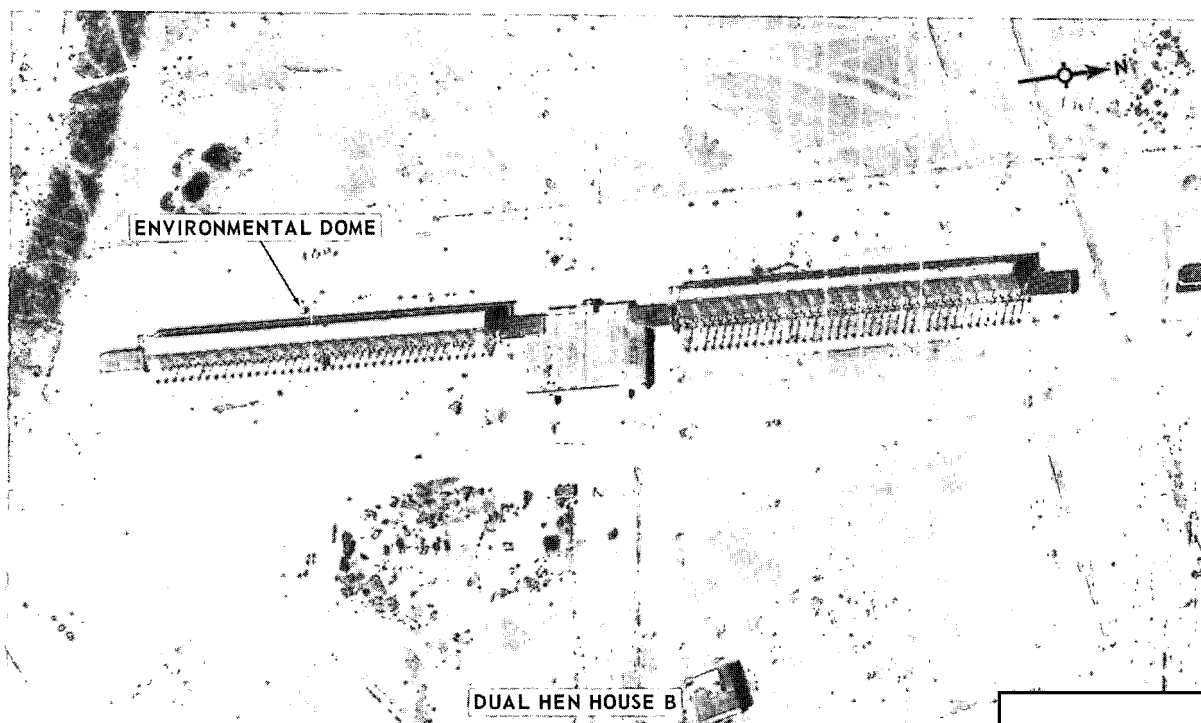
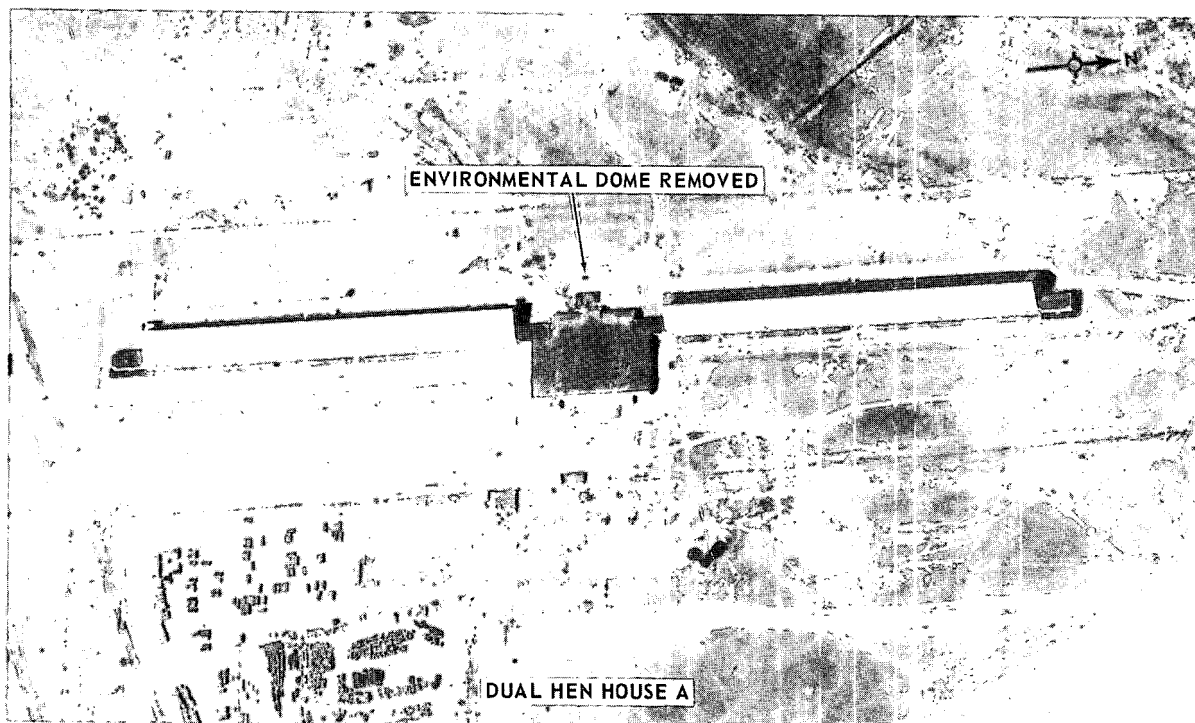
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25X2

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Next 5 Page(s) In Document Exempt

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ASAT/SPACE TRACKING RADAR FACILITY, SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR (COMOR)

25X1A

25X6

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